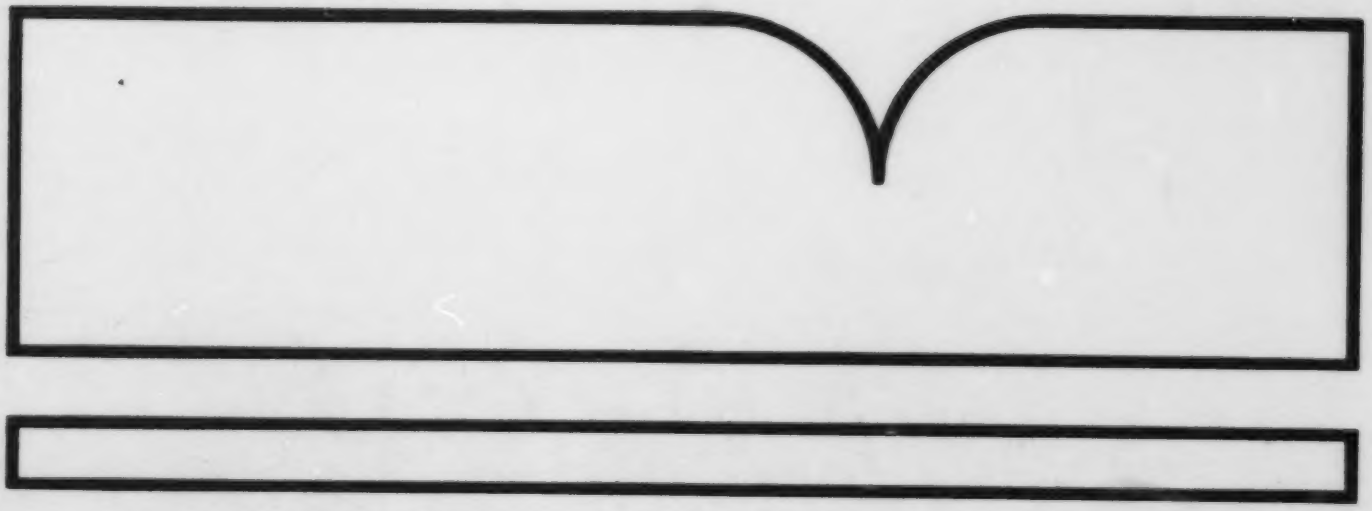
PB81-177784

NEDS National Emissions Data System Information

(U.S.) Environmental Protection Agency
Research Triangle Park, NC

Jul 80



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16. ABSTRACT

This NEDS Information Booklet describes the NEDS System for an individual who is unfamiliar with NEDS. The information booklet includes: (1) an overview of the data contained in NEDS, (2) an explanation of available air emissions publications, (3) a description of procedures for requesting data, and (4) a description and example of the most important computerized reports.

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July 1980

Air

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NEDS National Emissions Data System Information

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NEDS
National Emissions Data System
Information

Monitoring and Data Analysis Division
National Air Data Branch

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Air, Noise, and Radiation
Office of Air Quality Planning and Standards
Research Triangle Park, North Carolina 27711

July 1980

i.b

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INTRODUCTION

The National Emissions Data System (NEDS) is an automated data processing system used by the U.S. Environmental Protection Agency for storage of data on sources of air pollution. NEDS is a part of the comprehensive Aerometric and Emissions Reporting System (AEROS), described in detail in a booklet "Aerometric and Emissions Reporting System", which is available upon request.

Data from NEDS are available either as publications, computer printout reports, or magnetic tape files. The purpose of this document is to present descriptions of the various NEDS reports that are available and identify procedures for obtaining them.

OVERVIEW OF
THE NATIONAL EMISSIONS DATA SYSTEM

GENERAL DESCRIPTION

The National Emissions Data System (NEDS) is a computerized data-handling system that accepts, stores, and reports on the latest available information relating to sources of air pollutant emissions of particulates, SO_x, NO_x, CO, and hydrocarbons. In NEDS, sources are treated either as point sources or area sources. As defined in EPA reporting regulations, point sources are stationary sources that emit more than 100 tons per year of any of the five pollutants covered in NEDS. A point source is considered to be an individual facility or company location. Some point source facilities emitting less than 100 tons per year are also included in NEDS at the option of the state agencies which submit the point source data. Area sources are all other stationary sources that individually emit less than 100 tons/year and all mobile sources. In NEDS, emissions from area sources are considered collectively on a county basis.

All source-related data are entered into NEDS via specifically formatted point and area source coding forms (Figure 1 and Figure 2) and are stored in separate point and area source files. Data stored for point and area sources are described below.

POINT SOURCE DATA

The point source data are collected by State and local air pollution control agencies utilizing State questionnaires and plant visits. These data are coded onto the point source form (or produced in the same format by computer programs) and submitted for inclusion in NEDS through the EPA Regional Offices. The States are required to update the data as new sources are constructed, and when existing sources are modified or cease operation. The regulation prescribing reporting of point source data is 40CFR 51.321.

The current NEDS point source file reflects the latest data reported by State agencies. Since annual reporting is not required for all sources, all point sources in NEDS do not have a common year of record. It is assumed that no significant changes have occurred for those sources whose reported year of record is older than the current year.

Data reported for point sources in NEDS may be categorized according to the following groups:

General source information - name, address, type(s) of source(s), Standard Industrial Classification, year of record, and comments.
Emissions data - operating or production rates and capacities, estimated emissions, estimation method, and type and efficiency of control device for each pollutant.
Modeling parameters - UTM coordinates of source, stack height and diameter, exhaust gas temperature, and gas flow rate.
Compliance information - allowable emissions, compliance status, and compliance schedules.

NEDS point source data are organized into three hierarchial levels.

1. Plant level data apply to an entire facility defined as a point source.
2. Point level data apply to individual emission points within a plant. A plant may contain any number of emission points. A point is that portion of a facility that may be considered individually for emission purposes. A point may contain one or more processes or pieces of equipment that are related in contributing to the emissions from the point. In most cases, a point emits pollutants through a single confined location such as a stack, but it may emit pollutants at more than one location or at no clearly defined location within a plant.
3. Process level data apply to individual processes within a point and are utilized to calculate emissions. Each process is defined by a Source Classification Code (SCC). In general, for each SCC there are emission factors, which relate the quantity of pollutants generated by a process to annual process operating rate. These emission

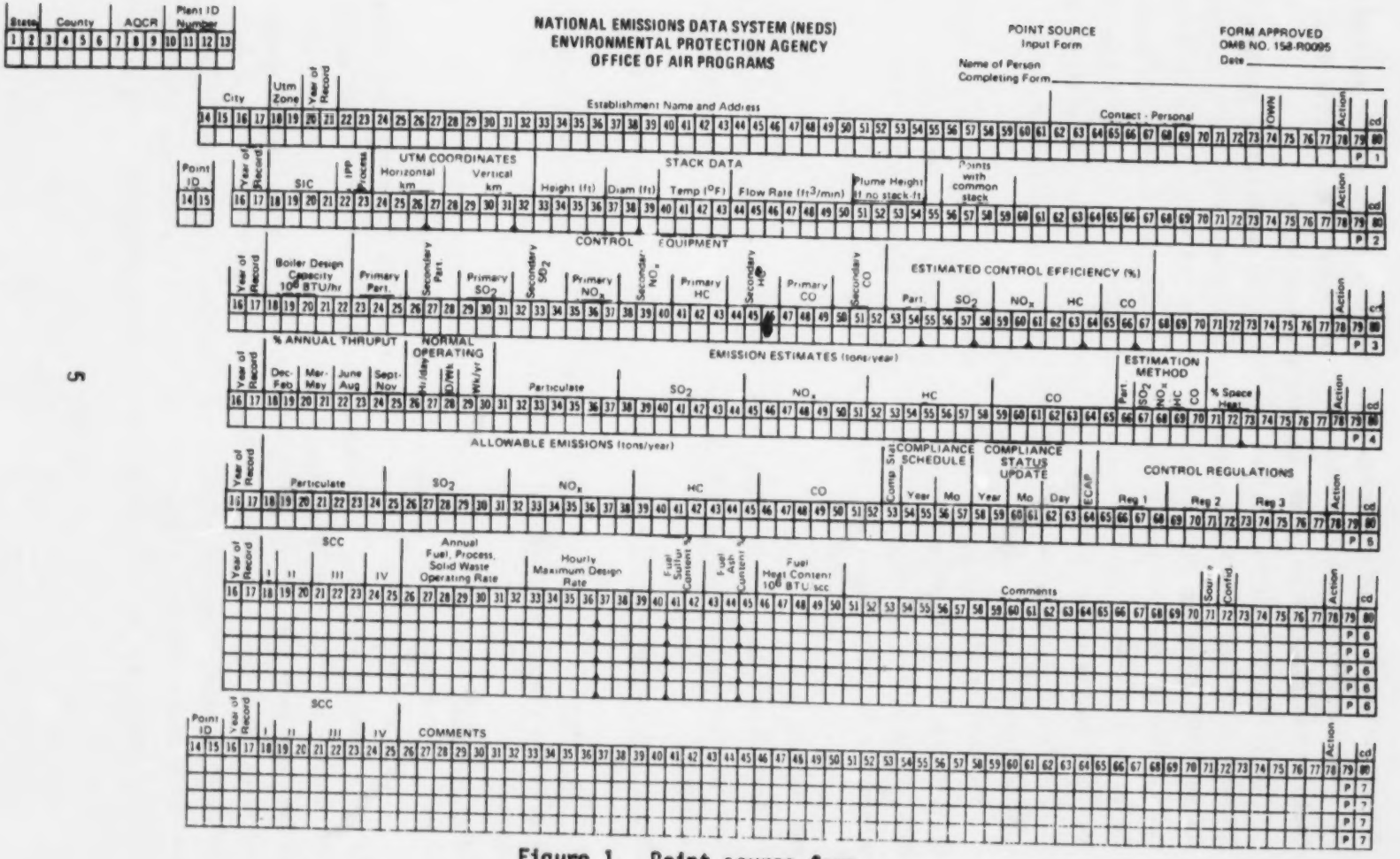

Figure 1. Point source form

factors are used to compute emissions. Multiple processes and multiple SCC's may be grouped under one emission point, as in the case of boilers using two fuels or two separate processes sharing the same stack.

The point source file provides for the use of alternative methods for determining the emissions being reported. Emissions are usually calculated for each SCC using the emission factors in the SCC emission factor file; however, by use of an appropriate code on the input form and completion of fields for recording hand-calculated emission estimates, the emission-factor-computed emissions may be replaced by any more accurate estimates of emissions available. If no emission factors are available for an SCC, an alternative method is used to estimate emissions for these records.

The point source data are routinely submitted by States to the Regional Offices and by the Regional Offices to the National Air Data Branch. These data are updated on a regular update schedule and are then available for generation of publications or computerized reports.

AREA SOURCE DATA

Area source data are developed mainly by NADB, but may be supplemented by data voluntarily submitted by State agencies. NEDS area source data are grouped as follows:

General source information - name and location of area (county) source, year of record.

Activity levels - countywide activity level of each area source category, (e.g., tons of coal burned in all domestic space heating equipment in a county).

Emissions data - emissions estimates for the entire county for each pollutant as well as for each source category for each pollutant.

Activity levels are derived primarily from related information published by other Federal agencies, supplemented by special data developed by EPA for the purpose of developing NEDS area source inventories. Published data such as fuel use by State, motor vehicle miles of travel by State and county, and forest fire acres burned by State are used with related data such as employment, population, and miscellaneous geographic or economic data available on a county-by-county basis to derive annual estimates of the activity levels for each of the NEDS area source categories. The activity

levels derived are adjusted to account for point source activity (such as fuel use by point sources) so that the area source data reflect only the activity levels (and resulting calculated emissions) that are not accounted for by point sources.

The area source emission estimates are calculated for each source category utilizing emission factors which are contained in the NEDS area source emission factor file. For many categories, the same emission factors are used for all counties; however, for some source categories, State or county specific emission factors account for local variables that affect emissions. These more specific emission factors are used in NEDS calculations for all highway motor vehicle categories, fugitive dust categories, and for selected other categories in a few counties where data are available to develop more applicable emission factors than the national emission factors. Provision is also made, as an option, to override computer-calculated emissions for any source category for any county, by hand calculated emissions that may be more accurate than any simple emission-factor calculation.

The area source data are updated on an annual basis by the National Air Data Branch. All area source data in the file at any given time therefore reflect a common year of record.

NATIONAL EMISSIONS DATA SYSTEM (NEDS)
ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF AIR PROGRAMS

AREA SOURCE
Input Form

FORM APPROVED
OMB NO. 158 R0895

Date _____

Name of Person
Completing Form _____

State	County	AQCR
1 2	3 4 5	6 7 8 9

Year of Record	SIP EMISSION ESTIMATES (10^2 tons/yr)					SULFUR CONTENT (%)				ASH CONTENT (%)		RESIDENTIAL FUEL					Action	cd
	Particulate	SO_2	NO_x	HC	CO	Anth. Coal	Bitum. Coal	Dist. Oil	Resid. Oil	Anth. Coal	Bitum. Coal	Anth. Coal 10^1 tons	Bitumin. Coal 10^1 tons	Dist. Oil 10^4 Gal.	Resid. Oil 10^4 Gal.	Nat. Gas 10^7 ft.^{3}	Wood 10^2 tons	
10 11 12 13 14 15 16	17 18 19 20	21 22 23 24	25 26 27 28 29	30 31 32 33 34	35	36	37	38	39	40	41	42 43 44 45 46 47 48	49 50 51 52 53 54 55 56	57 58 59 60	61 62 63 64	65 66 67 68	69 70 71 72 73 74 75 76	77	78	79 80
																		A 1

COMMERCIAL AND INSTITUTIONAL FUEL						INDUSTRIAL FUEL												Action	cd
Anth. 10^1 tons	Bitumin. 10^1 tons	Dist. Oil 10^4 Gals.	Resid. Oil 10^4 Gals.	Nat. Gas 10^7 Ft^3	Wood 10^2tons	Anth. Coal 10^1 tons	Bitum. Coal 10^1 tons	Coke 10^1 tons	Dist. Oil 10^4 Gals.	Resid. Oil 10^4 Gals.	Nat. Gas 10^7 Ft^3	Wood 10^2 tons	Process Gas 10^7 ft^3						
10 11 12 13 14	15 16 17 18 19	20 21 22 23 24	25 26 27 28 29	30 31 32 33	34 35	36 37 38 39 40 41	42 43 44 45 46 47	48 49 50 51	52 53 54 55 56	57 58 59 60	61 62 63 64	65 66	67 68 69	70 71 72 73	74 75 76 77	78	79	80
																	A	2

ON SITE INCINERATION			OPEN BURNING			GASOLINE FUEL			DIESEL FUEL						Action	cd
Residential 10^1 tons	Industrial 10^2 tons	Comm. Inst. 10^2 tons	Residential 10^2 tons	Industrial 10^2 tons	Comm'l Instit. 10^2 tons	Light Vehicle 10^3 Gals.	Heavy Vehicle 10^3 Gals.	Off Hiway 10^3 Gals.	Heavy Vehicle 10^3 Gals.	Off Hiway 10^4 Gals.	Rail Locomotive 10^4 Gals.	Pop Code				
10 11 12 13 14 15	16 17 18 19 20	21 22 23 24	25 26 27 28 29 30	31 32 33 34 35 36	37 38 39 40 41	42 43 44 45 46 47 48	49 50 51 52 53 54 55 56	57 58 59 60	61 62 63 64	65 66	67 68 69 70 71	72 73 74 75 76	77	78	79	80
															A	3

AIRCRAFT			VESSELS				EVAPORATION		MEASURED VEHICLE MILES			Action	cd
Military LTO CYC 10^2	Civil LTO CYC 10^1	Commercial LTO CYC 10^1	Coal 10^1 tons	Diesel Oil 10^4 Gals.	Resid. Oil 10^4 Gals.	Gasoline 10^3 Gals.	Solvent Purchased tons/yr	Gasoline Marketed 10^5 Gals.	Limited Access Road 10^4 Miles	Rural Roads 10^4 Miles	Suburban Roads 10^4 Miles	Urban Roads 10^4 Miles				
10 11 12 13 14 15	16 17 18 19	20 21 22 23 24	25 26 27 28	29 30 31 32	33 34 35 36	37 38 39 40 41	42 43 44 45 46 47	48 49 50 51 52	53 54 55 56 57 58	59 60 61 62 63 64	65 66 67 68 69 70	71 72 73 74 75 76	77	78	79	80
															A	4

Dirt Roads Traveled 10^3 Vehicle miles	Dirt Air Strips LTO CYCLES	Construction Acres	Miscellaneous Wind Erosion 10^3 Acres	Land Tilling 10^3 Acres	FOREST WILDFIRES		MANAGED BURNING (Slash/Prescribed Burning)		AGRICULTURAL FIELD BURNING		FROST CONTROL 10^2		STRUCTURE FIRES	Action	cd
					Acres Burned	Tons/acres Burned	Acres Burned	Tons/Acres Burned	Acres Burned	Tons/Acres Burned	Orchard Heaters Operating	Days/Fired Days/year	Fires/year		
10 11 12 13 14 15 16	17 18 19 20 21	22 23 24 25 26 27	28 29 30 31 32	33 34 35 36 37	38 39 40 41 42 43 44	45 46 47	48 49 50 51 52 53 54	55 56	57 58 59 60 61 62 63	64 65	66 67 68 69 70 71 72	73 74 75 76 77	78	79	80
														A	5

COMMENTS	Action	cd
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77	78	79 80
		A 6

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Figure 2. Area source form

NATIONAL EMISSIONS DATA SYSTEM (NEDS)
ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF AIR PROGRAMS

FORM APPROVED
OMB NO. 158-R0005

AREA SOURCE
Input Form
Date _____

Name of Person
Completing Form _____

SOURCE EMISSION ESTIMATES (tons/yr)

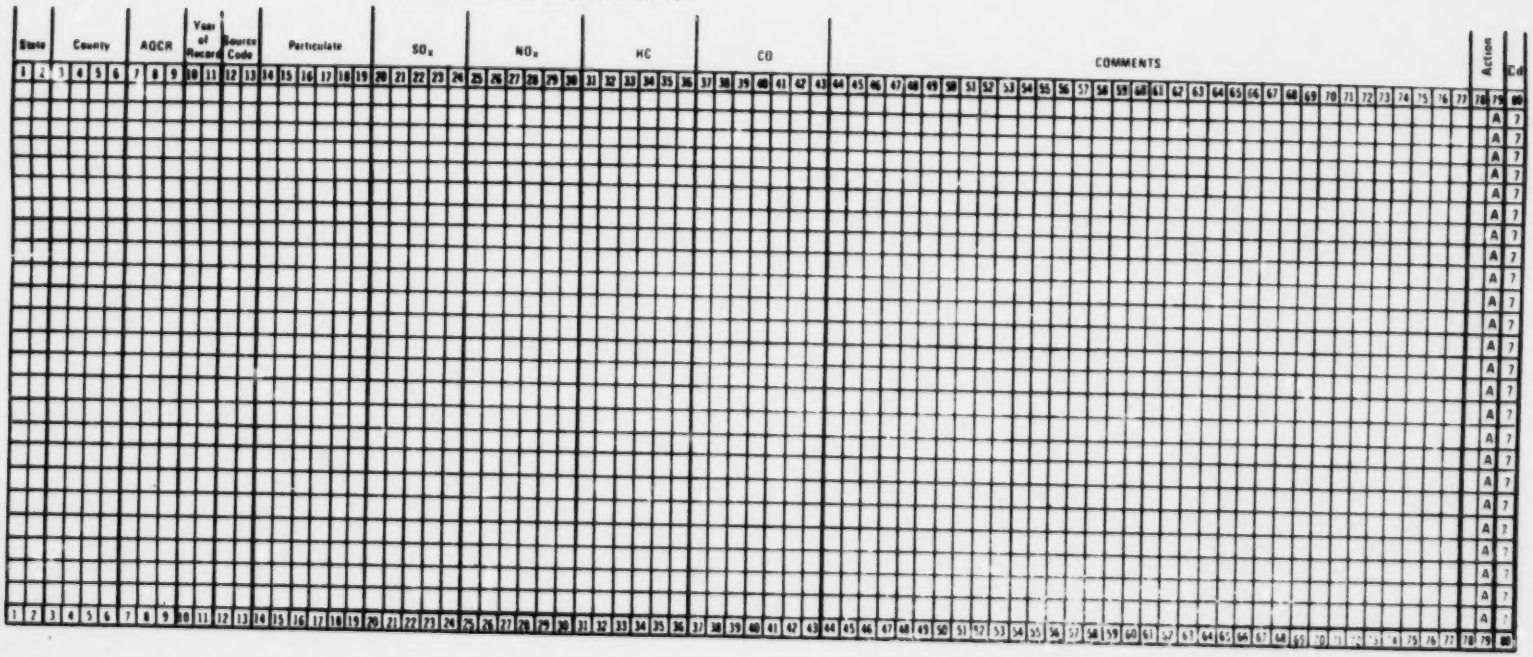

Figure 2. Area source form (continued)

NEDS PUBLICATIONS

Two annual publications, the National Emissions Report and the NEDS Fuel Use Report, are compiled from commonly used NEDS data. Persons interested in obtaining NEDS data for any purpose should first determine whether existing publications provide the information desired. The existing publications have the advantage of being readily available at little or no cost to the user but have the disadvantage of being representative of a given time period and not reflecting the current status of the data files. If the annual publications do not satisfy the particular need, the client should evaluate the NEDS computerized reports and request the useful one, utilizing the procedures in the following section. Copies of these publications are available from:

Library Services Office (MD-35)
Office of Administration
U.S. Environmental Protection Agency
Research Triangle Park, NC 27711

FTS: 629-2777
Commercial: (919) 541-2777

or

National Technical Information Service
5285 Port Royal Road
Springfield, Virginia 22161

NATIONAL EMISSIONS REPORT

Published annually by EPA, the National Emissions Report contains a NEDS emission summary table for each of the 55 "States" and each of the 247 Air Quality Control Regions (AQCR's) in the United States. The tables that constitute the body of the document are as follows:

1. Summary for the United States
2. Summary tables for each State
3. Tables for each AQCR or portion of an (interstate) AQCR lying within that State.

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UNITED STATES

Emission categories	Pollutant, tons per year				
	Particulates	Sulfur oxides	Nitrogen oxides	Hydro-carbons	Carbon monoxide
GRAND TOTAL	**13,767,464**	**32,824,182**	**22,389,846**	**27,157,495**	**93,403,622**
AREA	**2,995,912**	**2,158,228**	**11,751,671**	**21,718,054**	**83,368,606**
POINT	**10,771,552**	**30,665,954**	**10,638,175**	**5,439,441**	**10,035,016**
FUEL COMBUSTION AREA	1,173,457	1,416,580	1,186,679	165,067	476,181
POINT	1,474,876	24,022,539	9,770,640	266,238	695,963
External Combustion area	1,173,457	1,416,580	1,186,679	165,067	476,181
point	4,468,213	23,987,513	9,107,986	202,534	642,715
Residential Fuel area	280,855	299,528	339,666	121,944	392,047
Anthracite Coal	14,205	31,364	4,261	3,551	127,841
Bituminous Coal	28,044	78,775	4,207	28,044	126,280
Distillate Oil	73,052	184,129	87,662	21,916	36,526
Residual Oil	15	128	27	2	1
Natural Gas	27,530	1,652	220,309	22,031	55,077
Wood	58,000	1,480	23,200	46,400	46,400
Electric Generation point	3,069,057	20,481,352	7,083,182	96,421	292,470
Anthracite Coal	20,090	26,371	11,441	128	2,607
Bituminous Coal	2,857,546	18,039,244	4,795,561	61,901	220,491
Lignite	48,584	223,700	81,311	2,187	6,977
Residual Oil	88,503	1,939,810	1,231,626	25,648	36,479
Distillate Oil	10,036	130,930	22,773	1,661	2,023
Natural Gas	36,179	80,419	872,650	3,104	21,723
Process Gas	128	4,643	7,102	34	143
Coke	80	27,545	1,647	1	91
Solid Waste/Coal	152	5,160	240	14	14
Other	7,761	3,530	8,831	1,743	1,922
Industrial Fuel area	852,960	695,831	450,891	20,479	41,697
point	1,398,309	3,304,748	1,925,149	98,863	337,514
Anthracite Coal area	144	132	86	1	11
point	6,216	59,746	36,613	79	1,094
Bituminous Coal area	779,745	378,266	87,418	5,828	11,656
point	734,076	1,802,686	455,700	13,934	33,894
Lignite point	9,578	11,382	6,871	280	721
Residual Oil area	29,944	289,571	78,115	3,906	5,208
point	99,645	1,033,348	325,636	15,039	49,893
Distillate Oil area	32,523	27,223	130,093	6,505	8,673
point	22,986	130,871	107,749	3,847	4,913
Natural Gas area	8,573	514	154,320	2,572	14,575
point	37,147	69,154	619,222	14,126	88,852
Process Gas area	62	6	71	93	0
point	26,392	139,492	191,389	3,335	5,303
Coke point	207	1,136	334	300	18,037
Wood area	1,969	118	788	1,575	1,575
point	205,302	28,186	154,921	37,344	105,778
Liquid Petroleum Gas point	523	4,330	10,294	128	470
Bagasse point	46,755	154	8,615	8,142	9,281
Other point	9,482	22,259	7,807	2,311	19,279
Commercial Institutional Fuel area	119,642	421,222	396,121	22,644	42,437
point	93,769	201,381	99,632	7,246	12,745
Anthracite Coal area	1,513	1,387	647	13	308
point	17,751	1,989	1,851	37	213
Bituminous Coal area	24,688	21,247	4,262	927	3,335
point	56,291	103,050	21,156	1,779	4,726
Lignite point	2,680	1,862	944	74	197
Residual Oil area	47,621	369,816	124,229	6,211	8,282
point	10,997	77,769	30,948	2,174	2,049
Distillate Oil area	35,273	28,139	141,092	7,055	9,406
point	3,643	9,676	13,917	709	1,001
Natural Gas area	10,489	629	125,867	8,391	20,978
point	1,682	3,334	24,476	1,352	2,658
Wood area	59	4	24	47	47
point	572	118	2,064	985	1,855
Liquid Petroleum Gas point	25	45	103	7	20
Miscellaneous point	1,077	32	23	4	6
Internal Combustion point	10,663	35,027	662,654	63,704	53,237
Electric Generation	7,336	22,998	266,410	34,789	24,957
Distillate Oil	4,078	18,896	53,906	2,035	4,678
Natural Gas	994	232	181,840	26,695	6,433
Diesel Fuel	2,082	3,042	27,244	2,088	10,709
Industrial Fuel	2,994	11,876	395,429	28,123	30,084
Distillate Oil	488	4,644	6,595	730	1,340
Natural Gas	921	4,480	163,808	24,413	20,798
Gasoline	3	3	93	217	2,249
Diesel Fuel	1,527	2,821	22,525	2,521	4,852
Other	55	9	2,410	242	856
Commercial-Institutional	28	7	806	82	89
Diesel Fuel	28	7	395	42	89
Other	0	0	9	0	0
Engine Testing	905	145	380	760	1,897
Aircraft	146	108	274	575	742
Other	159	7	106	185	335
Miscellaneous	0	0	11	0	0
INDUSTRIAL PROCESS-POINT	6,225,434	6,578,292	814,062	5,035,717	8,432,446
Chemical Manufacturing	227,843	912,310	148,118	1,057,120	1,895,593
Food/Agriculture	653,856	1,398	1,624	56,827	1,368
Primary Metal	1,089,644	3,820,776	43,576	107,934	1,705,176
Secondary Metals	139,379	58,980	7,557	10,110	683,114
Mineral Products	3,367,747	515,401	178,732	66,531	45,935
Petroleum Industry	130,748	964,883	361,523	527,326	2,907,263
Wood Products	298,753	110,417	8,515	31,717	847,266
Evaporation	18,578	1,667	4,017	2,705,322	8,551
Metal Fabrication	3,216	41	1,344	7,267	13
Leather Products	94	6	0	913	0
Textile Manufacturing	986	50	74	15,197	13
Inprocess Fuel	165,450	162,013	54,428	37,952	201,267
Other/Not Classified	129,219	30,351	4,536	331,501	66,918
SOLID WASTE DISPOSAL-AREA	326,713	27,759	100,456	621,016	1,775,833
-POINT	165,369	33,285	35,721	136,790	986,261
Government-point	98,054	11,661	17,913	57,030	241,675
Municipal Incineration	60,223	9,842	8,156	14,059	119,583
Open Burning	21,508	1,282	7,758	42,266	114,401
Other	16,324	531	1,999	706	7,690
Residential-area	250,267	12,643	71,709	529,418	1,530,101
On Site Incineration	64,178	1,003	2,006	180,501	541,504
Open Burning	186,089	11,631	69,703	348,917	988,597
Commercial-Institutional-area	48,060	10,326	18,022	53,503	141,828
-point	6,291	3,332	4,265	6,508	29,042
On Site Incineration-area	29,288	9,153	10,983	18,305	42,101
-point	3,214	3,243	3,952	5,970	25,618
Open Burning-area	18,772	1,173	7,039	35,198	99,726
-point	1,072	1	127	256	3,158
Apartment-point	68	6	24	67	92
Other-point	1,931	82	162	215	174
Industrial-area	28,386	4,799	10,645	38,096	103,985
point	60,997	18,292	13,543	73,251	635,544
On Site Incineration-area	12,102	3,782	4,538	7,564	17,996
point	48,076	11,018	10,513	58,947	602,104
Open Burning-area	16,284	1,018	6,106	30,533	86,509
point	7,227	282	1,885	13,712	31,459
Auto Body Incineration point	101	0	10	58	230
Other-point	5,592	6,992	1,136	534	1,752
Miscellaneous-point	27	0	0	0	0
TRANSPORTATION-AREA	1,165,518	713,808	10,405,078	13,158,334	79,126,817
Land Vehicles	1,034,442	585,410	10,098,388	11,081,978	76,558,169
Gasoline	745,592	215,776	6,706,901	10,572,429	74,786,586
Light Vehicles	671,732	188,085	5,892,434	8,898,749	59,766,875
Heavy Vehicles	56,571	18,643	617,337	1,117,839	8,717,997
Off Highway	17,289	9,049	197,129	555,840	6,301,675
Diesel Fuel	288,850	369,634	3,391,487	509,549	1,771,623
Heavy Vehicles	112,267	142,885	1,250,229	168,950	1,117,082
Off Highway	126,966	113,621	1,406,921	154,037	396,531
Rail	49,617	113,128	734,337	186,561	258,010
Aircraft	109,271	28,057	134,844	374,550	293,769
Military	89,567	17,103	43,028	208,389	223,692
Civil	14,052	2,791	12,694	62,236	35,633
Commercial	5,652	8,163	79,121	103,925	214,444
Vessels	21,805	100,420	171,847	580,443	1,774,879
Bituminous Coal	1,273	3,183	191	1,273	5,729
Diesel Fuel	15,526	19,408	144,911	38,039	50,719
Residual Oil	5,005	74,173	10,841	752	363
Gasoline	0	3,657	15,904	540,379	1,718,068
Gas Handling Evaporation Loss	0	0	0	1,121,363	0
MISCELLANEOUS-AREA	330,224	2	59,456	7,774,637	1,989,774
Forest Fires	175,474	0	41,288	247,728	1,445,082
Structural Fires	1,168	2	102	303	2,638
Slash Burning	153,582	0	18,066	180,684	542,053
Frost Control	0	0	0	0	0
Solvent Evaporation Loss	0	0	0	7,344,921	0

Figure 3. National emissions report

4. Tables for all of the interstate AQCR's, each one in its entirety.

The individual tables are organized according to the major categories of sources of emissions of the five pollutants. The five major source categories are:

1. Fuel combustion
2. Industrial processes
3. Solid waste disposal
4. Transportation
5. Miscellaneous

The following figure gives an example of the national summary described above. The format of tables for the State and AQCR summaries is identical to that shown for the nation in the example.

Each annual report reflects data determined to be the most representative of actual emissions for a particular calendar year. Thus, the 1975 NEDS National Emissions Report, based on area source data for 1975, and point source data best representing 1975, provides the best available data from NEDS on actual air pollutant emissions for calendar year 1975.

NEDS FUEL USE REPORT

The NEDS Fuel Use Report is published annually, concurrent with the NEDS National Emissions Report. This publication contains a fuel summary for the nation and for each State in both English and metric units. As demonstrated by the example, the publication contains fuel use totals for each fuel for major source categories such as area sources, (stationary and mobile) and point sources (external combustion, internal combustion, and in-process fuel).

PUBLICATIONS AVAILABLE

To date the following specific publications are available:

1972	National Emissions Report	EPA-450/2-74-012
1973	National Emissions Report	EPA-450/2-76-007
1973	NEDS Fuel Use Report	EPA-450/2-76-004
1974	National Emissions Report	EPA-450/2-78-026
1974	NEDS Fuel Use Report	EPA-450/2-77-031

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NATIONAL REPORT ***NEDS ANNUAL FUEL SUMMARY REPORT***

USER FILE CREATE DATE: FRIDAY FEBRUARY 24, 1978

DATE OF RUN: 02/27/78

	ANTH COAL	BITH COAL	RESID OIL	DIST OIL	NAT GAS	WOOD/BARK	GASOLINE	DIESEL
	TONS	TONS	1000 GALS	1000 GALS	10E6 CUFT	TONS	1000 GALS	1000 GALS
AREA SOURCES								
STATIONARY								
RESIDENTIAL	2415380	2804440	1340	144[illegible]340	5502730	8440000		
INDUSTRIAL	11440	11455740	2409820	833440	1786503	157600		
COMM-INSTL	129490	924510	4140960	4703080	2099790	4700		
MOBILE								
LIGHT VEHICLE							92351070	
HEAVY VEHICLE							49483[illegible]97	9181934
RAILROAD								3949190
OFF-HIGHWAY							3051335	4027280
VESSELS		127312	518490				1140857	1293860
AREA TOTAL	2556310	15514[illegible]50	7246810	29449830	9392023	8822200	1[illegible]3531459	20473354
POINT SOURCES								
EXT COMB								
ELEC GEN	1479719	415817646	2254[illegible]437	1372848	3[illegible]1AE	2120405		
INDUSTRIAL	154910	4[illegible]59659	8878821	1976129	3353771	3737[illegible]84		
COMM-INSTL	217975	29827[illegible]64	1041[illegible]78	483536	341840	643387		
INPROCESS	437830	11236763	1788586	995719	1806636	880484		
INTERNL COMB								
ELEC GEN			796	785535	5[illegible]4844			153498
INDUSTRIAL			20	141210	4[illegible]9A8		473	91941
COMM-INSTL								1709
POINT TOTAL	2489434	4[illegible]527421	3[illegible]4[illegible]535	5764967	10407233	4[illegible]38830	473	246496
GRAND TOTAL	5045744	4[illegible]541421	4152[illegible]345	2[illegible]4827	19799256	4[illegible]41030	1[illegible]3532332	20719850

	LIGNITE	COKE	BAGASSE	PROCESS GAS	LIQ-PETRO	JET FUEL	SOLID WASTE	LIQUID WASTE
	TONS	TONS	TONS	10E6 CUFT	1000 GALS	1000 GALS	TONS	1000 GALS
POINT SOURCES								
EXT COMB								
ELEC GEN	13A0A473	5A1[illegible]1		46320			A2A00	
INDUSTRIAL	112337A	58019	9918012	13103180	280474		5AA022	549287
COMM-INSTL	143318			73	19497			18120
INPROCESS		293,228		4260A21	105494			
INTERNL COMB								
ELEC GEN						121260		
INDUSTRIAL						1523		
COMM-INSTL								
GRAND TOTAL	14873147	355[illegible]48	9918012	17403339	415485	122783	428422	567407

Figure 4. NEDS fuel use report

1975	National Emissions Report	EPA-450/2-78-020
1975	NEDS Fuel Use Report	EPA-450/2-78-018
1976	National Emissions Report	EPA-450/4-79-019
1976	NEDS Fuel Use Report	EPA-450/4-79-020
1977	National Emissions Report	EPA-450/4-80-005
1977	NEDS Fuel Use Report	EPA-450/4-80-004

PROCEDURES FOR REQUESTING COMPUTERIZED REPORTS

The computerized reports that are described in the next section may be requested from the EPA Regional Offices or the National Air Data Branch. If the data are for States within one EPA Regional Office, the request should be directed to that Regional Office. Regional Office addresses and the States in each region are listed below. If the data are for States in more than one Regional Office, the request should be directed to:

Requests and Information Section (MD-14)
National Air Data Branch
Environmental Protection Agency
Research Triangle Park, NC 27711

FTS: 629-5491
Commercial: (919) 541-5491

All requests except those received from within EPA or from other Federal agencies will be processed in accordance with the Freedom of Information Act. In order for a request to be evaluated and processed, the request must be made in a letter; however, before submitting the letter, a telephone call to the Regional Office or NADB may be appropriate to discuss availability of data and any possible new computerized reports.

When requesting data by letter, the following specific items must be specified:

1. The computerized report name or if none specifically apply, the data items required,
2. The geographical area required for retrieval as well as other retrieval options such as ownership code, Standard Industrial Classification Code, emission estimation method, SCC or pollutant. Whenever it is possible, the actual codes for the retrievals (State, county, AQCR, and SCC) should be specified. These are included in AEROS Manual Series, Volume V: AEROS Manual of Codes.
3. The specific sorts desired,
4. A person to contact and telephone number in case questions arise,

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5. Any time constraints involved, and
6. Authorization to incur any charges which are necessary to provide the data and which have been previously discussed.

Requests that can be completed utilizing computerized reports are often completed within 2 weeks. If a request should require more than 2 weeks, the individual requestor is notified.

Some requests, because of the large volume of data created, are best supplied on magnetic tape. The section on computerized reports will specify which reports may be obtained on magnetic tape. In all requests requiring magnetic tapes, the requestor must supply the magnetic tapes and specify the characteristics of the desired tapes.

The magnetic tapes are created on a UNIVAC 1110 computer with the following recording options: (1) character code - ASCII or EBCDIC, (2) tracks - 7 or 9, (3) density - 800 or 1600, and (4) unlabeled. The record length and blocksize varies based on the specific report produced.

As a Federal agency, EPA normally makes no charge for reports requested by other Federal agencies; however, if a request is of major impact on NADB's computer budget, NADB may request that user and account codes be established by way of interagency agreements.

Many NEDS data users are non-Federal and typically include State and local air pollution control agencies, universities, contractors, private industry, consultants, and private citizens. For non-Federal users except State and local air pollution control agencies, a charge may be necessary to cover the costs of retrieving and printing the requested data; if so, the requestor will be notified before any cost is incurred. This booklet will not give any specific costs for individual reports since the retrieval and sort options are so numerous for each individual report.

REGION	STATES IN REGION		CONTACT INFORMATION
I	Connecticut Maine Massachusetts	New Hampshire Rhode Island Vermont	NEDS Contact (A&HM) EPA, Region I John F. Kennedy Bldg. Boston, MA 02203 (FTS) 223-4448 (617) 223-4448
II	New Jersey New York	Puerto Rico Virgin Islands	NEDS Contact (Air Facilities) EPA, Region II 26 Federal Plaza New York, NY 10007 (FTS) 264-9578 (212) 264-9578
III	Delaware District of Columbia Maryland	Pennsylvania Virginia West Virginia	NEDS Contact (A&HM) EPA, Region III 6th and Walnut Streets (FTS) 597-8184 (215) 597-9860
IV	Alabama Florida Georgia Kentucky	Mississippi North Carolina South Carolina Tennessee	NEDS Contact (A&HM) EPA, Region IV 345 Courtland Street, N.E. Atlanta, GA 30308 (FTS) 257-3286 (404) 881-3286
V	Illinois Indiana Michigan	Minnesota Ohio Wisconsin	NEDS Contact (S&A) EPA, Region V 230 S. Dearborn Chicago, IL 60604 (FTS) 886-6227 (312) 886-6227
VI	Arkansas Louisiana New Mexico	Oklahoma Texas	NEDS Contact (S&A) EPA, Region VI 1201 Elm Street Dallas, TX 75270 (FTS) 729-2724 (214) 767-2724
VII	Iowa Kansas	Missouri Nebraska	NEDS Contact (A&HM) EPA, Region VII 1735 Baltimore Avenue Kansas City, MO 64108 (FTS) 758-3791 (816) 374-3791

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VIII	Colorado Montana North Dakota	South Dakota Utah Wyoming	NEDS Contact (S&A) EPA, Region VIII 1860 Lincoln Street Denver, CO 80295 (FTS) 327-2226 (303) 837-2226
IX	Arizona California Guam	Hawaii Nevada	NEDS Contact (Mgmt) EPA, Region IX 215 Fremont Street San Francisco, CA 94105 (FTS) 556-2326 (415) 556-2326
X	Alaska Idaho	Oregon Washington	NEDS Contact (S&A) EPA, Region X 1200 6th Avenue (M/S 345) Seattle, WA 98101 (FTS) 399-1106 (206) 442-1106

* FTS number is for Federal use only. Requestors not affiliated with Federal or local government agencies should address written requests to the Freedom of Information Officer at the appropriate Regional Office address indicated above.

NEDS COMPUTERIZED REPORT DESCRIPTIONS

The computerized reports can be broadly classified as raw data reports and summary reports. Each computerized report is generated by a different computer program which is the reason for different sort and retrieval options for each report.

The raw data reports list the actual stored data or a subset of the data based on specific report program and the retrieval options. These reports include:

1. point source report (NE215)
2. condensed point source report (NE207)
3. allowed versus computed emissions report (NE208)
4. NEDS AQDM data tabulation report (NE219)
5. quick look report (NE206)
6. area source report (NE260)
7. area source cards format on tape (NE210)
8. area source file on tape (NE109)
9. point source cards format on tape (NE211)
10. NEDS point source subfile on tape (NE001)

The summary reports provide various geographical summaries of emissions and fuel consumption as well as counts of sources, and counts of missing items. The summary reports include:

1. emission summary report (NE204)
2. annual fuel summary report (NE213)
3. potential emissions report (NE255)
4. plant emissions report (NE220)
5. SCC emissions report (NE228)
6. plant name report (NE252)
7. emissions by SCC report (NE257)
8. SIC emissions report (NE264)

9. county point and area source emissions report (NE265)
10. modeling parameters report (NE259)
11. plant-point-SCC count report (NE232)
12. missing item report (NE200)
13. highest plant number in county report (NE212)

The remaining portion of this section describes the individual reports giving the sort options, retrieval options, and sample reports. At the end a short glossary is given which defines selected terms that are used in the descriptions of the reports.

NEDS GENERAL SELECTION AND SORT CAPABILITIES

As shown in Table 1, many of the NEDS reports may be retrieved by means of the NEDS general selection and sort program. All of these reports share a common set of selection and sorting capabilities. The term selection refers to the procedure used to retrieve data from NEDS data files. Sorting refers to the order in which retrieved data are arranged in printed reports or selected data files.

DATA SELECTION

For reports that employ the NEDS general selection program, data may be retrieved using either the "standard" or "free-format" selection option. This capability applies only to the selection of point source data. Reports that require area source data have their own selection capabilities which are described in the following subjects for each specific report.

The "standard" selection option is the most cost-effective means for retrieval of point source data. However, the types of retrievals available are more limited than with the free-format selection option. Using the standard selection option, data may be retrieved according to specific data values for any of the following:

a. State
b. AQCR
c. County
d. Plant ID
e. Point ID
f. Ownership Code
g. Standard Industrial Classification (SIC)
h. Emissions Estimation Method
i. Source Classification Code (SCC) and Component Parts
j. Source emitting more than X tons of any one pollutant
k. Valid combinations of any of the above

There are only certain combinations of the retrieval categories listed above that are valid. For example, the county code numbers are unique within each State but not across State boundaries. Thus although no two counties in Arizona have the same county code number, 0040 is the county code number

both for Apache County in Arizona and Arkansas County in Arkansas. As a result, retrieval by county is only meaningful when combined with retrieval by State.

In the same manner retrieval by plant requires specification of county and State identifiers; retrieval by point requires specification of plant, county, and State identifiers.

It should be noted that the same type of restriction applies to retrieval by SCC parts. Data may be retrieved by SCC as follows:

a. Complete 8-digit SCC
b. First 6 digits of SCC
c. First 3 digits of SCC
d. First digit only of SCC

These selection options allow simple retrieval of data for groups of processes as identified by SCC. For example, a retrieval for SCC 1-02-002-02 would select only records with the complete 8-digit SCC (bituminous coal-fired dry bottom pulverized coal industrial boilers), a retrieval for SCC 1-02-002 would select all records with these first 6 digits regardless of what the last 2 digits are (all industrial coal-fired boilers in this case), a retrieval for SCC 1-02 would select only records with these first 3 digits (all industrial boilers), and a retrieval for SCC 1 would select all records with a first digit of 1 (all boilers).

The "free-format" selection option offers many additional retrieval capabilities not available with the standard selection option. However, depending on the nature of the request, selection by the free format option may require more computer time and thus be more costly to complete than typical reports generated by the standard selection option.

The free format selection option offers the following retrieval capabilities:

a. Retrieval by specific data values for any of 80 point source data items. An example would be the retrieval of all records with fuel sulfur content equal to 1%. A list of all the data items are shown in Table 2.
b. Retrieval, for any data item, according to whether an actual data value is greater than or less than a specified data value. For

Table 1. Summary of NEDS Retrievals

Report	General Selection Capability	Nation (All Records in File	State	EPA Region	AQCR	State Portions of Interstate	All counties in a State	All counties in an AQCR	County
Raw Data Reports									
Point Source Report	X								
Condensed Point Source Report	X								
Allowed vs. Computed Emissions Report	X								
AQDM Data Tabulation Report		X					X	X	X
Quick Look Report	X								
Area Source Report		X	X		X	X	X	X	X
Area Source Cards		X					X		X
Area Source File on Tape		X					X		X
Point Source Cards	X								
Point Source Subfile on Tape	X								
Summary Reports									
Emission Summary Report		X	X	X	X	X	X		X
Annual Fuel Summary Report		X	X		X	X	X		X
Potential Emissions Report[1]	X	X	X		X	X	X		X
Plant Emissions Report	X								
SCC Emissions Report		X							
Plant Name Report	X								
Emissions By SCC Report	X								
SIC Emissions Report[1]	X	X	X		X	X	X		X
County Point and Area Source[1] Emissions Report	X						X		
Modeling Parameters Report		X							
Management Reports									
Plant-Point-SCC County Report		X							
Missing Item Report[1]	X	X	X		X	X	X		X
Highest Plant Number in County Report		X							

[1]The general selection capability applies to the selection of point source data, but the report may be printed as a summary only for the areas with X shown.

example the following types of selections are possible:

All records with fuel sulfur content greater than 2%.

All records with fuel sulfur content less than 1%.

All records with fuel sulfur content greater than 1% but less than 2%.

c. Retrieval by valid combinations of data items and data value ranges. For example, a retrieval could be:

All records in a specific state with SIC in the range 2000 to 2099, stack heights greater than 200 feet, and particulate emissions greater than 50 tons per year.

d. Two special selection options associated with the SCC are available:

1. Selection of all records within emission points that have a specified SCC.
2. Selection of all records within plants that have a specified SCC.

These selection options may be used to retrieve an entire point or an entire plant with at least one record having a specified SCC. These selections may be used to retrieve boilers using multiple fuels or to retrieve all sources in plants with a specific process, for example.

SORTING OF OUTPUT REPORTS AND FILES

Data retrieved by either the standard or free format selection options may be sorted at the option of the requestor. If no sort is specified, data will be listed in the standard NEDS point source file record sequence, that is, ascending order by State, County, Plant, Point and SCC. Optional sorting of data will require additional computer time and will thus increase the total cost of producing a report.

Data may be sorted in ascending (from lowest value to highest) or descending (from highest value to lowest) order according to any of the point source data items shown in Table 2. A maximum of 20 sort parameters may be specified for any single report. Sorts are performed in hierarchical order according to each sort parameter specified. For example, if a sort

is specified as:

1. State-ascending order
2. SCC - ascending order
3. SO_2 emissions - descending order

the output report or file will be produced with selected records listed in order first according to state code in increasing sequence, next according to SCC in increasing sequence within each state, and finally by SO_2 emissions in descending sequence within each SCC within each state. Records with identical values for state, SCC and SO_2 emissions will appear in random order since no additional sort parameters were specified.

33 PRIMARY CONTROL EQUIPMENT HC
34 SECONDARY CONTROL EQUIPMENT HC
35 PRIMARY CONTROL EQUIPMENT CO
36 SECONDARY CONTROL EQUIPMENT CO
37 EST CONTROL EFFICIENCY PARTICULATE (%)
38 EST CONTROL EFFICIENCY SO_2 (%)
39 EST CONTROL EFFICIENCY NO_x (%)
40 EST CONTROL EFFICIENCY HC (%)
41 EST CONTROL EFFICIENCY CO (%)
42 YEAR EMISSIONS INFO LAST UPDATED (CARD 4)
43 % ANNUAL THRU PUT (DEC-FEB)
44 % ANNUAL THRU PUT (MAR-MAY)
45 % ANNUAL THRU PUT (JUN-AUG)
46 % ANNUAL THRU PUT (SEP-NOV)
47 NORMAL OPERATING HOURS PER DAY
48 NORMAL OPERATING DAYS PER WEEK
49 NORMAL OPERATING WEEKS PER YEAR
50 STATE ESTIMATED EMISSIONS PARTICULATES (TONS/YEAR)
51 STATE ESTIMATED EMISSIONS SO_2 (TONS/YEAR)
52 STATE ESTIMATED EMISSIONS NO_x (TONS/YEAR)
53 STATE ESTIMATED EMISSIONS HC (TONS/YEAR)
54 STATE ESTIMATED EMISSIONS CO (TONS/YEAR)
55 ESTIMATION METHOD PARTICULATE
56 ESTIMATION METHOD SO_2
57 ESTIMATION METHOD NO_x
58 ESTIMATION METHOD HC
59 ESTIMATION METHOD CO
60 % SPACE HEAT
61 YEAR REGULATORY INFO LAST UPDATED (CARD 5)
62 ALLOWABLE EMISSIONS PARTICULATE (TONS/YR)
63 ALLOWABLE EMISSIONS SO_2 (TONS/YR)
64 ALLOWABLE EMISSIONS NO_x (TONS/YR)
65 ALLOWABLE EMISSIONS HC (TONS/YR)
66 ALLOWABLE EMISSIONS CO (TONS/YR)
67 COMPLIANCE STATUS
68 COMPLIANCE SCHEDULE - YEAR

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69 COMPLIANCE SCHEDULE - MONTH
70 COMPLIANCE STATUS UPDATE - YEAR
71 COMPLIANCE STATUS UPDATE - MONTH
72 COMPLIANCE STATUS UPDATE - DAY
73 EMERGENCY CONTROL ACT PROGRAM STATUS
74 CONTROL REGULATION NUMBER 1
75 CONTROL REGULATION NUMBER 2
76 CONTROL REGULATION NUMBER 3
77 YEAR PROCESS INFO LAST UPDATED (CARD 6)
78 FUEL, PROCESS, SOLID WASTE OPERATING RATE
79 MAXIMUM DESIGN RATE
80 % SULFUR CONTENT
81 % ASH CONTENT
82 HEAT CONTENT (10 6 BTU)
83 SOURCE CODE
84 CONFIDENTIALITY OF DATA
85 COMPUTER CALCULATED PARTICULATE EMISSIONS (TONS/YEAR)
86 COMPUTER CALCULATED SO_2 EMISSIONS (TONS/YEAR)
87 COMPUTER CALCULATED NO_X EMISSIONS (TONS/YEAR)
88 COMPUTER CALCULATED HC EMISSIONS (TONS/YEAR)
89 COMPUTER CALCULATED CO EMISSIONS (TONS/YEAR)

POINT SOURCE REPORT

GENERAL DESCRIPTION

Sources emitting more than a specific amount per year of any one of the five criteria pollutants (particulates, sulfur oxides, nitrogen oxides, hydrocarbons, and carbon monoxide) are classified by EPA as point sources.* The basic "Point Source Report" produces a full, formatted listing of all relevant identifying and descriptive point source data as well as estimated and NEDS calculated emissions for each criteria pollutant. More specifically, the following information is available for each emission point+ for each criteria pollutant:

a. Geographic location
b. Year of Record
c. Modeling Parameters - UTM coordinates, stack height, diameter, temperature, etc.
d. Emission Data - Throughput rate, estimated emissions, estimation method, control equipment, control efficiency, etc.
e. Allowable Emissions
f. Compliance Status
g. Operating Information
h. Annual Fuel Consumption
i. Source Operating Characteristics

Each page of computer output contains the data for one process (SCC).

When determining total plant emissions from such a printout, care must be taken to avoid adding duplicate "Hand Calculated Point Emissions" into the total. The "Computer Calculated SCC Emissions" should be used to determine total plant emissions. The calculated emissions are labeled "Computer

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*The specific amount is an SIP reporting requirement defined in 40 CFR, Section 51.322. NEDS also accepts data based on a state's definition of a point source.

+An emission point is a source which is coded on a single NEDS coding form.

Calculated SCC Emissions" on the report. The field labeled "Hand Calculated Point Emissions" reflects emissions for a NEDS emission point which are entered by the data originator. The same values for "Hand Calculated Point Emissions" will be repeated on separate pages for points with more than one SCC. Normally, in such cases, the sum of all "Computer Calculated SCC Emissions" for a point will equal the "Hand Calculated Point Emissions" for points with emission estimation method codes of 1,2,4,5,6, and 7. Some data conditions may prevent this relationship from always holding true. For points with emission estimation method code 3 (SCC emission factor file calculation), the calculated emissions have no dependence on any hand calculated point emissions that may be reported.

RETRIEVALS AVAILABLE

NEDS point source reports may be retrieved and sorted according to the information described in the "General Selection and Sorting Capabilities Section".

SAMPLE REPORT

A sample "Point Source Report" for one SCC record is shown in Figure 5.

NATIONAL EMISSIONS DATA SYSTEM

POINT SOURCE LISTING

STATE(09): DIST. COLUMBIA AQCR(047): NATIONAL CAPITAL
COUNTY(0020): WASHINGTON PLANT ID: 0001 POINT ID: 04 CITY(0020): WASHINGTON

NAME-ADDRESS: POTOMAC EL PWR BENNING RD&34TH STS SIC(4911): ELECTRIC SERVICES
PERSONAL CONTACT: NORM ALLARD SCC(1-01-004-01): EXTCOMB BOILER -ELECTRIC GENERATN -RESIDUAL OIL -NO 6 OIL NORM FRG

GENERAL INFORMATION

DATE OF LAST UPDATE: 1978

OWNERSHIP: UTILITY

SCC PROCESS: 91

SOURCE: BOILER

NORMAL OPERATIONS
HOURS/DAY: 24
DAYS/WEEK: 7
WEEKS/YEAR: 22

% ANNUAL THROUGHPUT
DEC-FEB: 61 %
MAR-MAY: 39 %
JUNE-AUG: 00 %
SEPT-NOV: 00 %

% SPACE HEAT: 00.0 %

COMPLIANCE INFO
NOT IN COMPLIANCE

SCHEDULED COMPLNCE DATE: 05/75

COMPLIANCE STATUS UPDATE: / /

EMERGENCY CONTROL ACTION PLAN
STATUS UNKNOWN

UTM GRID COORDINATES

UTM ZONE: 18
HORIZONTAL: 330.2 KM
VERTICAL: 4,307.0 KM

STACK PARAMETERS

STACK HEIGHT: 177 FT
STACK DIAMETER: 8.5 FT
GAS TEMPERATURE: 310 F
GAS FLOW RATE: 263,456 ACFM
PLUME HT(NO STACK): FT
SAME STACK VENTS POINTS 04-05

CONTROL DEVICE/METHOD IDENTIFICATION

PRIMARY PART: CENTRIFUGAL COLLECTOR - HIGH EFFICIENCY
SECOND. PART: ELECTROSTATIC PRECIPITOR - HIGH EFFIC

PRIMARY SOX: NO CONTROL EQUIPMENT
SECOND. SOX: NO CONTROL EQUIPMENT

PRIMARY NOX: NO CONTROL EQUIPMENT
SECOND. NOX: NO CONTROL EQUIPMENT

PRIMARY HC: NO CONTROL EQUIPMENT
SECOND. HC: NO CONTROL EQUIPMENT

PRIMARY CO: NO CONTROL EQUIPMENT
SECOND. CO: NO CONTROL EQUIPMENT

CONTROL EFFICIENCIES

PART: 99.8 %
SOX: 00.0 %
NOX: 00.0 %
HC: 00.0 %
CO: 00.0 %

FUEL CHARACTERISTICS

FUEL SULFUR CONTENT: 0.81 %
FUEL ASH CONTENT: 00.0 %
FUEL HEAT CONTENT: 147 MILLION BTU/1000GALLONS BURNED

HAND CALCULATED POINT EMISSIONS

PARTICULATE:	30 TONS/YR
SOX:	551 TONS/YR
NOX:	453 TONS/YR
HC:	4 TONS/YR
CO:	22 TONS/YR

EMISSION ESTIMATION METHODS

PART: SPECIAL STATE EMISSION FACTOR
SOX: SPECIAL STATE EMISSION FACTOR
NOX: SPECIAL STATE EMISSION FACTOR
HC: SPECIAL STATE EMISSION FACTOR
CO: SPECIAL STATE EMISSION FACTOR

OPERATING RATES

ANNUAL OPERATING RATE: 8,630 1000GALLONS BURNED
HOURLY MAXM DESIGN RATE:
BOILER DESIGN CAPACITY: 968 MILLION BTU/HR

ALLOWABLE EMISSIONS FOR POINT

PARTICULATE:	21 TONS/YR
SOX:	0 TONS/YR
NOX:	185 TONS/YR
HC:	0 TONS/YR
CO:	0 TONS/YR

COMPUTER CALCD SCC EMISSIONS

PART:	30	TONS/YR
SOX:	551	TONS/YR
NOX:	453	TONS/YR
HC:	4	TONS/YR
CO:	22	TONS/YR

COMMENTS: UNIT 14 NO 4 OIL

PLANT COMMENT :
POINT COMMENT :
SCC COMMENT :

Figure 5. Point source report

CONDENSED POINT SOURCE REPORT

GENERAL DESCRIPTION

The "Condensed Point Source Report" is an abbreviated listing for emission points. To generate this report, a particular pollutant and the minimum value of emissions of that pollutant must be specified. Emission points emitting more than that minimum value of the pollutant will be included in the report.

A heading containing the creation date, minimum value, specified pollutant, and an indication of whether the data are in English or metric units is printed first. Next is displayed a five-line summary for each SCC per emission point.

The five line summary includes the following information for each SCC per emission point: geographic location, ownership, year of record, SIC and annual emissions of each of the five criteria pollutants. Also included are the control equipment, control efficiency, and estimation method relevant to the specified pollutant.

RETRIEVALS AVAILABLE

Reports may be retrieved and sorted according to the information described in the "General Selection and Sorting Capabilities Section."

SAMPLE REPORT

The example is a partial Condensed Point Source Report for the State of Rhode Island. The pollutant specified is hydrocarbons and the minimum value of the pollutant included is 50 tons. The condensed point source report presents only "computer calculated SCC emissions," as described for the full point source report.

NATIONAL EMISSIONS DATA SYSTEM

CONDENSED POINT SOURCE LISTING FOR PARTICULATE
FOR ALL VALUES > THAN OR = TO 10
EMISSIONS ARE IN SHORT TONS

		PART	S O X	N O X	H C	C O
0001: POTOMAC EL PWR BENNING RD&34TH STS 09: DIST. COLUMBIA 0020: WASHINGTON 047: NATIONAL CAPITAL 000: NO CONTROL EQUIPMENT ESTIMATE BY (3) USED EMISSIONS FACTORS	OWNERSHIP: UTILITY YEAR OF RECORD: 1978 EFF = 0.0 % POINT: 01 SIC = 4911 SCC = 1-01-004-01	11	201	165	2	8
0001: POTOMAC EL PWR BENNING RD&34TH STS 09: DIST. COLUMBIA 0020: WASHINGTON 047: NATIONAL CAPITAL 000: NO CONTROL EQUIPMENT ESTIMATE BY (3) USED EMISSIONS FACTORS	OWNERSHIP: UTILITY YEAR OF RECORD: 1978 EFF = 0.0 % POINT: 02 SIC = 4911 SCC = 1-01-004-01	11	198	163	2	8
0001: POTOMAC EL PWR BENNING RD&34TH STS 09: DIST. COLUMBIA 0020: WASHINGTON 047: NATIONAL CAPITAL 010: ELECTROSTATIC PRECIPITOR - HIGH EFFICIENCY ESTIMATE BY (3) USED EMISSIONS FACTORS	OWNERSHIP: UTILITY YEAR OF RECORD: 1978 EFF = 96.0 % POINT: 03 SIC = 4911 SCC = 1-01-004-01	19	379	279	3	13
0001: POTOMAC EL PWR BENNING RD&34TH STS 09: DIST. COLUMBIA 0020: WASHINGTON 047: NATIONAL CAPITAL 007: CENTRIFUGAL COLLECTOR - HIGH EFFICIENCY ESTIMATE BY (2) MATERIALS BALANCE	OWNERSHIP: UTILITY YEAR OF RECORD: 1978 EFF = 95.0 % POINT: 04 SIC = 4911 SCC = 1-01-004-01	30	551	453	4	22
0001: POTOMAC EL PWR BENNING RD&34TH STS 09: DIST. COLUMBIA 0020: WASHINGTON 047: NATIONAL CAPITAL 000: NO CONTROL EQUIPMENT ESTIMATE BY (3) USED EMISSIONS FACTORS	OWNERSHIP: UTILITY YEAR OF RECORD: 1978 EFF = 0.0 % POINT: 05 SIC = 4911 SCC = 1-01-004-01	186	3,395	2,788	27	132
0001: POTOMAC EL PWR BENNING RD&34TH STS 09: DIST. COLUMBIA 0020: WASHINGTON 047: NATIONAL CAPITAL 000: NO CONTROL EQUIPMENT ESTIMATE BY (4) GUESS	OWNERSHIP: UTILITY YEAR OF RECORD: 1978 EFF = 0.0 % POINT: 06 SIC = 4911 SCC = 1-01-004-01	174	3,167	2,599	25	123
0047: BIZ RD PT STA POTOMAC EL PWR 18V ST20006 09: DIST. COLUMBIA 0020: WASHINGTON 047: NATIONAL CAPITAL 008: CENTRIFUGAL COLLECTOR - MEDIUM EFFICIENCY ESTIMATE BY (1) STACK TESTS/MEASUREMENTS	OWNERSHIP: UTILITY YEAR OF RECORD: 1978 EFF = 80.0 % POINT: 02 SIC = 4911 SCC = 1-01-004-01	23	282	189	2	9

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Figure 6. Condensed point source report

ALLOWED VERSUS COMPUTED EMISSIONS REPORT

GENERAL DESCRIPTION

For each pollutant, allowed emissions may be entered into NEDS for a given emission point. The calculated emissions refer to the emissions associated with each SCC of that point source. The "Allowed Versus Computed Emissions Report" was written to permit comparison of coded allowable emissions with total calculated emissions for the emission point.

Each plant requested is represented in the report by one or more pages of computer output. A heading containing the creation date and identifying geographic data is printed on the first page. In the pages that follow, the emission data for each plant are described with the points listed in ascending numerical order. For each point, the report prints the allowed emissions for each pollutant (zero values are printed as blanks), the calculated emissions of each pollutant for each SCC, and the totals of the calculated emissions for each pollutant.

RETRIEVALS AVAILABLE

Reports may be retrieved based on the information described in the "General Selection and Sorting Capabilities Section."

SAMPLE REPORT

Figure 7 is a sample from an "Allowed Versus Computed Emissions Report" retrieved for the State of Vermont and the Air Quality Control Region of Champlain Valley.

ALLOWED VERSUS COMPUTED EMISSIONS

DATE: MAY 12, 1980 FILE CREATED ON: APRIL 1P, 198C

STATE(47): VERMONT
AQCR(159): CHAMPLAIN VALLEY

PLANT NAME AND ADDRESS: UNIVERSITY OF VERMONT,BURLINGTON

POINT NUMBER: 01
SCC NAME
SCC1 : EXTCOMB BOILER COMMERCL-INSTUTNL NATURAL GAS 10-100MMBTU/HR YEAR OF RECORD 75

	PART	SOX	NOX	HC	CO
ALLOWED EMISSIONS:	P	36			
COMPUTED EMISSIONS:					
SCC1 :	<1	<1	4	<1	<1
TOTAL:	<1	<1	4	<1	<1

REGULATIONS:

POINT NUMBER: 02
SCC NAME
SCC1 : EXTCOMB BOILER COMMERCL-INSTUTNL NATURAL GAS 10-100MMBTU/HR YEAR OF RECORD 75

	PART	SOX	NOX	HC	CO
ALLOWED EMISSIONS:	39	240			
COMPUTED EMISSIONS:					
SCC1 :					
TOTAL:					

REGULATIONS:

POINT NUMBER: 03
SCC NAME
SCC1 : EXTCOMB BOILER COMMERCL-INSTUTNL NATURAL GAS 10-100MMBTU/HR YEAR OF RECORD 75

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Figure 7. Allowed versus computed emissions report

AQDM DATA TABULATION REPORT

GENERAL DESCRIPTION

The "AQDM Data Tabulation Report" was written to allow review of NEDS point source data that may be used as input to a dispersion model such as AQDM, the Air Quality Display Model. The NEDS-AQDM tabulation includes; Plant name, address and ID, UTM co-ordinates, present and allowable emission estimates for any two pollutants, and stack data in the format required by AQDM for the SORCE and PLUME decks. Emission estimates are converted from tons/year to tons/day. The conversion is based on 365 days per year for all sources. Stack data have been converted to metric units.

RETRIEVALS AVAILABLE

The report may be produced for the nation, a state, an AQCR, or a county.

SAMPLE REPORT

Figure 8 is an example AQDM data tabulation report.

FILE CREATED ON FRIDAY APRIL 1R, 198C

NEDS POINT SOURCE EMISSION AND STACK DATA

39 DIST. COLUMBIA 947 NATIONAL CAPITAL (D.C.-MD-VA) 0020 WASHINGTON

IDENT PLANT POINT		NAME AND ADDRESS	CONF	STK NO	UTM COORDINATE ZN HOR	VERT	EMISSION ESTIMATES-TONS/DAY PRESENT SO2	PART.	ALLOWABLE SO2	PART.	HT M	STACK DATA VEL M/SEC	DIA M	TEMP K
0001	01	POTOMAC EL PWR BENNING RD&34TH STS	2	01	18 330.2	4307.0	.551	.030	.000	.030	73.8	.85	4.57	449
	02		2	01	18 330.2	4307.0	.542	.030	.000	.030	73.8	.85	4.57	449
	03		2		18 330.2	4307.0	.929	.052	.000	.041	35.7	12.83	3.35	417
	04		2	04	18 330.2	4307.0	1.510	.082	.000	.058	53.9	23.60	2.59	427
	05		2	04	18 330.2	4307.0	9.310	.510	.000	.274	73.5	40.33	3.81	616
	06		2	06	18 330.1	4307.0	8.688	.477	.000	.258	73.5	40.33	3.81	616
0005	02	D.C.VILLAGE	2	00	18 325.0	4297.9	.033	.003	.000	.019	41.1	.00	2.62	533
	03		2	00	18 325.0	4297.9	.016	.003	.000	.003	12.2	.00	.91	549
0007	01	R&W MATL INC 9TH&BRENTWOOD RD NE	2		18 329.4	4310.8	.000	.011	.000	.000	12.2	32.43	.82	380
0009	01	ST ELIZABETHS HOSP SE WASH DC 20032	2	03	18 326.5	4302.0	.255	.011	.000	.014	68.6	1.71	3.65	330
	02		2		18 326.5	4302.0	.022	.003	.000	.003	68.6	4.13	3.04	393
	03		2	01	18 326.5	4302.0	.247	.011	.000	.011	68.6	1.71	3.65	330
	04		2	01	18 326.5	4302.0	.490	.022	.000	.025	68.6	1.71	3.65	330
0010	01	GWU 2129 EYE ST NW	2		18 322.3	4307.3	.003	.000	.000	.003	34.1	.59	.45	
	04		2		18 322.5	4307.4	.005	.000	.000	.003	30.8	.92	.51	
	05		2		18 322.8	4307.1	.005	.000	.000	.003	32.9	.18	1.21	
	06		2		18 322.4	4307.3	.005	.000	.000	.003	30.5	.89	.60	
	07		2		18 322.6	4307.2	.005	.000	.000	.003	28.7	.09	1.52	
	08		2		18 322.2	4307.4	.052	.005	.000	.025	39.3	.31	2.28	
	09		2		18 322.3	4307.5	.025	.003	.000	.011	33.5	.64	1.37	421
0014	01	WASHINGTON HOSP CTR 110 IRVING ST NW	2	01	18 325.3	4310.5	.129	.005	.000	.019	25.3	3.08	2.40	588
	02		2	01	18 325.3	4310.5	.115	.019	.000	.008	29.3	3.08	2.40	646
	06		2	05	18 325.3	4310.5	.038	.000	.000	.005	27.4	.00	1.52	477
	07		2		18 325.3	4310.5	.000	.000	.000	.000	29.3	.00	.85	
	08		2		18 325.3	4310.5	.219	.003	.000	.022	29.3	12.32	2.40	646
0017	02	R.P.OIL CORP 401 FARRAGUT ST NE	2	02	18 326.6	4313.0	.000	.000	.000	.000	.0	.00	.00	298
	03		2	02	18 326.7	4313.0	.000	.000	.000	.000	.0	.00	.00	298
	04		2	02	18 326.7	4313.0	.000	.000	.000	.000	.0	.00	.00	298
	05		2		18 326.6	4313.0	.000	.000	.000	.000	.0	.00	.00	298
	06		2		18 326.6	4313.0	.000	.000	.000	.000	.0	.00	.00	298
	07		2		18 326.7	4313.0	.000	.000	.000	.000	.0	.00	.00	298
	08		2		18 326.7	4313.0	.000	.000	.000	.000	.0	.00	.00	298
	09		2		18 326.7	4313.0	.000	.000	.000	.000	.0	.00	.00	298
0020	01	BOLLING AFB, WASHINGTON, DC 20332	2		18 325.3	4301.0	.000	.000	.000	.000	10.1	11.95	1.31	566
	02		2		18 325.3	4301.0	.000	.000	.000	.000	12.2	10.64	.91	421
0021	01	GALLAUDET COLLEGE KENDALL GREEN 20002	2		18 327.0	4308.2	.022	.003	.000	.011	12.2	23.55	.60	505
	02		2		18 327.0	4308.2	.008	.000	.000	.005	12.2	14.27	.45	505
0022	01	HOWARD UNIVERSITY WASHDC	2	00	18 325.3	4309.7	.321	.019	.000	.049	38.1	.00	2.74	505
	02		2	01	18 325.3	4309.7	.559	.047	.000	.019	38.1	.00	2.74	505
0024	01	GENERAL SERVICES ADM.WASH.D.C. 20407	2		18 321.6	4307.8	2.151	.474	.000	.000	40.2	29.23	2.74	588
	02		2	00	18 321.6	4307.8	1.389	.115	.000	.326	40.8	.00	2.22	255

Figure 8. AQDM data tabulation report

QUICK LOOK REPORT

GENERAL DESCRIPTION

The "NEDS Quick Look Report" is a one-line report of selected data items specified by the requestor. The Quick Look report is part of the NEDS interactive system described in detail in NEDS Terminal System Section. For each selected record, which may be either a point source record or an area source record, any data item may be printed in any order up to the maximum space available on one computer printout page. Thus, the Quick Look report is a means for printing a compact report displaying only those data items of specific interest to the requestor. For each selected record one line is printed, up to a maximum of 45 lines per computer printout page.

RETRIEVALS AVAILABLE

Data may be retrieved according to the information discussed in the "General Selection and Sorting Capabilities Section." For the "NEDS Quick Look Report", this retrieval capability is available for both point and area source data.

SAMPLE REPORT

Figure 9 is a sample "NEDS Quick Look Report" for selected point source records. In this report, the data items specified to be printed were state code, county code, plant name and address, primary and secondary particulate control equipment, particulate control efficiency, and SCC. Any other data items could be printed, if desired, and they could be listed in any order across the page. Note that in NEDS Quick Look reports of point source data, the plant name and address field is truncated after the first 20 characters.

NEDS USER POINT FILE

DATA SELECTION REPORT

DATE: 05/14/80 PAGE: 1

ST	CNTY	NAME-ADDRESS	TSP PCE	TSP SCE	TSP DEF	SCC
06	0020	PUBLIC SERVICE CO 61	12	1	99.6	10100202
06	0020	PUBLIC SERVICE CO 61	10		99.4	10100202
06	0020	PUBLIC SERVICE CO 61	12	1	99.6	10100202
06	0020	PUBLIC SERVICE CO 61	10	1	99.6	10100202
06	0220	PUBLIC SERVICE CO VA	2	11	97.0	10100202
06	0600	PUBLIC SERVICE CO AR	11		99.0	10100202
06	0600	PUBLIC SERVICE CO AR	11		99.2	10100202
06	0600	PUBLIC SERVICE CO AR	6	16	99.9	10100202
06	0600	PUBLIC SERVICE CO AR	2	11	99.4	10100202
06	0600	GOLDBERG BROS INC 35				10100210
06	0760	DEPARTMENT OF PUBLIC	8	11	99.7	10100202
06	0760	DEPARTMENT OF PUBLIC	8	11	98.9	10100202
06	0760	DEPARTMENT OF PUBLIC	10	0	99.4	10100202
06	0860	SOUTHERN COLO POWER	7	8	83.0	10100204
06	0860	SOUTHERN COLO POWER				10100204
06	1080	#ALSENBURG POWER PLA				10100208
06	1300	RICHNER INC PO BOX 1	0	0	0	10100211
06	1520	PUBLIC SERVICE CO OF	8	11	97.7	10100202
06	1640	COLORADO-UTE ELEC AS	16		99.5	10100204
06	1640	COLORADO-UTE ELEC AS	16		99.5	10100204
06	1640	COLORADO-UTE ELEC AS	16		99.5	10100204
06	1640	COLORADO-UTE JIM BUL	8		77.0	10100202
06	1640	COLORADO-UTE JIM BUL	8		77.0	10100202
06	1840	PUBLIC SERVICE CO C	10	0	99.7	10100202
06	1840	PUBLIC SERVICE CO C	10	0	99.7	10100202
06	1840	PUEBLO ARMY DEPOT P			0	10100299
06	1840	PUEBLO ARMY DEPOT P			0	10100299
06	1840	PUEBLO ARMY DEPOT P			0	10100299
06	1840	PUEBLO ARMY DEPOT P			0	10100299
06	1840	PUEBLO ARMY DEPOT P			0	10100299
06	1840	PUEBLO ARMY DEPOT P			0	10100299
06	1840	PUEBLO ARMY DEPOT P			0	10100211
06	1840	PUEBLO ARMY DEPOT P			0	10100211
06	1840	PUEBLO ARMY DEPOT P			0	10100211
06	1840	PUEBLO ARMY DEPOT P			0	10100211
06	1840	PUEBLO ARMY DEPOT P			0	10100211
06	1840	PUEBLO ARMY DEPOT P			0	10100211
06	1840	PUEBLO ARMY DEPOT P			0	10100211
06	1840	PUEBLO ARMY DEPOT P				10100209
06	1840	PUEBLO ARMY DEPOT P	9		60.0	10100209
06	1840	PUEBLO ARMY DEPOT P	9		60.0	10100208
06	1840	PUEBLO ARMY DEPOT P	9		60.0	10100208
06	1840	PUEBLO ARMY DEPOT P	9		60.0	10100208
06	1920	COLORADO-UTE ELECT A	10		99.6	10100202
06	1920	COLORADO-UTE ELECT A	10		99.6	10100202

Figure 9. Quick look report

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AREA SOURCE REPORT

GENERAL DESCRIPTION

Area sources are an aggregation of all sources not defined as point sources in a specific geographic area. Area sources usually included all mobile sources and any stationary sources too small, difficult, or numerous to classify as point sources. Area source emissions are assumed to be spread over the entire area that has been defined as an area source. Activity level data for these sources are compiled on a countywide basis for NEDS.

The complete Area Source report for each geographic area occupies six printed pages.' Page one gives general information: the total calculated emissions, the SIP estimate of total emissions, and comments which explain or amplify particular aspects of the data. Page two lists the activity levels and calculated emissions related to fuel consumption by stationary sources.' Page three lists the activity levels and calculated emissions related to solid waste disposal by stationary sources. Page four gives detailed motor vehicle data including vehicle miles, fuel use and calculated emissions by road type and vehicle type. Page five lists data for all mobile sources, including a summary of motor vehicle data plus data for vessels and aircraft. Page six gives the activity levels and calculated emissions for all other area sources which do not fall into the above categories.' On each of the last five pages, the appropriate totals and subtotals of activity levels and calculated emissions are also listed. A heading on each page identifies the geographic area, year, and general category to which the data apply and the file creation date of the NEDS area source file.

RETRIEVALS AVAILABLE

Retrieval options are available for:

a. The geographic area for which data are to be reported.
b. Which of the report pages are to be printed.
c. The level of detail of the report (summary or detail).

The following types of geographic data retrievals are possible:

1)	national:	all data for the entire nation
2)	state:	all data for one state
3)	AQCR:	all data from one AQCR
4)	state/AQCR:	all data for the portion of a state within one AQCR
5)	state/county:	the data for one county
6)	state/county/AQCR:	the data for that portion of a county within one AQCR.

In nearly all instances, the state/county and state/county/AQCR data retrievals are identical, since most counties are wholly within one AQCR. Only in those instances where portions of one county are within different AQCR's could there be a difference.

The Area Source Emissions Report which is produced from selected data may be either detailed or a summary. The "detailed" report lists the data for each selected county record plus a total of all selected data. The "summary" report lists only the total. The following table lists the types of totals obtained for each of the geographic selection types.

Geographic Selection	Totals produced in Emissions Report
National - by state	State, national
National - by AQCR	AQCR, national
State	State
AQCR	AQCR
State/AQCR	State/AQCR
State/county	none
State/county/AQCR	none

For example, if a "summary" report for the nation, by state, were requested, a national total and each state total would be produced. A "detailed" report for the nation, by state, would produce a national total report, totals for each state and reports for each of the more than 3100 counties

in the nation. If a "summary" report for an AQCR were requested, only a summary total for the AQCR would be printed. A "detailed" report for an AQCR would produce a summary total for the AQCR and reports for each county in the AQCR.

The final user option exercised pertains to which of the six pages of the Area Source Report are printed. Each page may be selectively included or excluded. This capability allows the user to obtain only those data of interest in a report and exclude extraneous information. Thus, a report with all six pages or only pages 1 and 4, for example, for each selected area may be obtained. Pages are printed in any selected order.

SORTS AVAILABLE

No sorts are performed. Data are reported in the same order as they are stored in the area source file, that is, in ascending state/county/AQCR codes. When selection is by AQCR, data are reported in ascending state/county order within each AQCR selected.

SAMPLE REPORT

Figure 10 is a sample area source report "summary" for the State of Delaware. Detailed reports for each county are in the same format.

05-12-80

NATIONAL EMISSIONS DATA SYSTEM

PAGE 0001-1

AREA SOURCE EMISSIONS REPORT FOR YEAR 1979

DATA FILE LAST UPDATED ON FEBUARY 19, 1980

TOTAL FOR STATE(OR): DELAWARE

GENERAL

	EMISSIONS IN TONS PER YEAR				
	PART	SOX	NOX	HC	CO
TOTAL AREA SOURCE EMISSIONS					
SIP ESTIMATE (1970)	1,200	2,500	17,600	53,500	255,900
COMPUTED EMISSIONS (1979)	30,978	6,075	32,716	62,705	308,167
RATIO OF SIP ESTIMATE TO COMPUTED EMISSIONS	0.039	0.412	0.538	0.853	0.830

AVERAGE URBAN POPULATION: 40 TO 49 PERCENT

Figure 10. Area source report

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AREA SOURCE EMISSIONS REPORT FOR YEAR 1979 DATA FILE LAST UPDATED ON FEBUARY 19, 1980

TOTAL FOR STATE(08): DELAWARE

FUEL CONSUMPTION		EMISSIONS IN TONS PER YEAR				
		PART	SOX	NOX	HC	CO
RESIDENTIAL		266	1,519	1,259	107	965
ANTHRACITE COAL	3,230 TONS	17	44	4	4	146
BITUMINOUS COAL	0 TONS	0	0	0	0	0
WOOD	6,400 TONS	81	1	4	19	480
DISTILLATE OIL	102,270 THOUSAND GALLONS	127	1,472	921	51	256
RESIDUAL OIL	0 THOUSAND GALLONS	0	0	0	0	0
NATURAL GAS	8,250 MILLION CUBIC FEET	41	2	330	33	83
COMMERCIAL AND INSTITUTIONAL		61	178	292	14	50
ANTHRACITE COAL	6,650 TONS	39	88	34	0	3
BITUMINOUS COAL	0 TONS	0	0	0	0	0
WOOD	0 TONS	0	0	0	0	0
DISTILLATE OIL	6,140 THOUSAND GALLONS	6	89	67	2	15
RESIDUAL OIL	0 THOUSAND GALLONS	0	0	0	0	0
NATURAL GAS	3,190 MILLION CUBIC FEET	16	1	191	12	32
INDUSTRIAL		697	1,341	479	24	86
ANTHRACITE COAL	3,630 TONS	21	48	18	0	1
BITUMINOUS COAL	24,990 TONS	650	950	187	13	25
COKE	0 TONS	0	0	0	0	0
WOOD	0 TONS	0	0	0	0	0
DISTILLATE OIL	23,430 THOUSAND GALLONS	25	343	261	11	59
RESIDUAL OIL	0 THOUSAND GALLONS	0	0	0	0	0
NATURAL GAS	140 MILLION CUBIC FEET	1	0	13	0	1
PROCESS GAS	0 MILLION CUBIC FEET	0	0	0	0	0
TOTAL FUEL CONSUMPTION		1,024	3,038	2,030	145	1,101
ANTHRACITE COAL	13,480 TONS	77	180	56	4	150
BITUMINOUS COAL	24,990 TONS	650	950	187	13	25
COKE	0 TONS	0	0	0	0	0
WOOD	6,400 TONS	81	1	4	19	480
DISTILLATE OIL	132,240 THOUSAND GALLONS	158	1,904	1,249	64	330
RESIDUAL OIL	0 THOUSAND GALLONS	0	0	0	0	0
NATURAL GAS	11,580 MILLION CUBIC FEET	58	3	534	45	116
PROCESS GAS	0 MILLION CUBIC FEET	0	0	0	0	0

FUEL CHARACTERISTICS:

ANTHRACITE COAL 0.7 % SULFUR, 11.7 % ASH
BITUMINOUS COAL 2.0 % SULFUR, 10.0 % ASH
DISTILLATE OIL 0.2 % SULFUR
RESIDUAL OIL 1.4 % SULFUR

Figure 10. Area source report (continued)

AREA SOURCE EMISSIONS REPORT FOR YEAR 1979 DATA FILE LAST UPDATED ON FEBUARY 19, 1980

TOTAL FOR STATE(OR): DELAWARE

SOLID WASTE DISPOSAL	TONS SOLID WASTE	EMISSIONS IN TONS PER YEAR PART	SOX	NOX	HC	CO
RESIDENTIAL	70,020	577	34	205	1,115	3,173
ON SITE INCINERATION	2,120	34	0	1	96	287
OPEN BURNING	67,900	543	34	204	1,019	2,886
COMMERCIAL AND INSTITUTIONAL	11,800	50	14	19	41	100
ON SITE INCINERATION	10,900	43	14	16	27	62
OPEN BURNING	900	7	0	3	14	38
INDUSTRIAL	21,700	87	28	33	55	125
ON SITE INCINERATION	21,700	87	28	33	55	125
OPEN BURNING	0	0	0	0	0	0
TOTAL SOLID WASTE DISPOSAL	103,520	714	76	257	1,211	3,398
ON SITE INCINERATION	34,720	164	42	50	178	474
OPEN BURNING	68,800	550	34	207	1,033	2,924

Figure 10. Area source report (continued)

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AREA SOURCE EMISSIONS REPORT FOR YEAR 1979 DATA FILE LAST UPDATED ON FEBUARY 19, 1980

TOTAL FOR STATE(S): DELAWARE

MOTOR VEHICLES	GALLONS FUEL (THOUSANDS)	MEASURED VEHICLE MILES (THOUSANDS)	EMISSIONS IN TONS PER YEAR PART	SOX	NOX	HC	CO
GASOLINE POWERED VEHICLES	312,682		15,758	689	18,659	35,006	288,695
HIGHWAY VEHICLES	304,878	3,894,713	15,720	670	18,218	33,882	274,960
LIGHT DUTY VEHICLES	216,476	3,000,796	11,904	430	11,583	21,140	162,511
LIMITED ACCESS		0	0	0	0	0	0
RURAL		1,137,465	1,709	163	4,599	5,436	30,246
SUBURBAN		0	0	0	0	0	0
URBAN		1,863,331	10,195	267	6,984	15,704	132,265
LIGHT DUTY TRUCKS	57,545	573,871	2,277	115	2,557	4,624	33,123
LIMITED ACCESS		0	0	0	0	0	0
RURAL		217,517	327	43	1,027	1,239	6,477
SUBURBAN		0	0	0	0	0	0
URBAN		356,354	1,950	72	1,530	3,385	26,646
HEAVY DUTY VEHICLES	30,857	319,646	1,539	125	4,078	8,118	79,326
LIMITED ACCESS		0	0	0	0	0	0
RURAL		118,396	275	46	1,702	1,583	18,429
SUBURBAN		0	0	0	0	0	0
URBAN		201,250	1,264	79	2,376	6,535	60,897
OFF-HIGHWAY VEHICLES	7,804		38	19	441	1,124	13,735
DIESEL POWERED VEHICLES	65,928		1,455	1,046	10,949	1,417	5,644
HIGHWAY VEHICLES - HEAVY DUTY	22,058	123,589	727	781	2,854	510	3,353
LIMITED ACCESS		0	0	0	0	0	0
RURAL		46,683	159	144	1,092	130	735
SUBURBAN		0	0	0	0	0	0
URBAN		76,906	568	237	1,762	380	2,618
OFF-HIGHWAY VEHICLES	43,870		717	442	7,947	869	2,239
RAILWAY LOCOMOTIVES	820		11	23	148	38	52
TOTAL - ALL MOTOR VEHICLES	379,610		17,213	1,735	29,608	36,423	294,339

Figure 10. Area source report (continued)

AREA SOURCE EMISSIONS REPORT FOR YEAR 1979 DATA FILE LAST UPDATED ON FEBUARY 19, 1980

TOTAL FOR STATE(S): DELAWARE

TRANSPORTATION	GALLONS FUEL (THOUSANDS)	MEASURED VEHICLE MILES (THOUSANDS)	EMISSIONS IN TONS PER YEAR PART	SOX	NOX	HC	CO
LAND VEHICLES	378,410		17,213	1,735	29,608	36,423	294,339
HIGHWAY VEHICLES	324,936	4,017,902	16,447	1,051	21,072	34,392	278,313
LIMITED ACCESS		0	0	0	0	0	0
RURAL		1,520,009	2,470	396	8,420	8,388	55,887
SUBURBAN		0	0	0	0	0	0
URBAN		2,497,901	13,977	655	12,652	26,004	222,426
OFF-HIGHWAY VEHICLES	50,874		755	681	8,388	1,993	15,974
RAILWAY LOCOMOTIVES	800		11	23	148	38	52
TOTAL - ALL GASOLINE VEHICLES	312,662		15,758	689	18,659	35,006	288,695
TOTAL - ALL DIESEL VEHICLES	65,928		1,455	1,046	10,949	1,417	5,644
AIRCRAFT	157,540 LANDING-TAKEOFF CYCLES		327	37	261	677	2,241
MILITARY	42,430 LANDING-TAKEOFF CYCLES		323	30	194	574	1,035
CIVIL	110,190 LANDING-TAKEOFF CYCLES		1	0	1	23	1,035
COMMERCIAL	4,950 LANDING-TAKEOFF CYCLES		3	7	66	80	171
VESSELS			110	1,186	535	1,991	6,145
COAL	0 TONS		0	0	0	0	0
DIESEL OIL	2,800 THOUSAND GALLONS		34	42	314	83	110
RESIDUAL OIL	7,910 THOUSAND GALLONS		76	1,131	165	11	6
GASOLINE	4,074 THOUSAND GALLONS		0	13	56	897	6,029
TOTAL TRANSPORTATION			17,650	2,958	30,404	39,091	302,725

Figure 10. Area source report (continued)

AREA SOURCE EMISSIONS REPORT FOR YEAR 1979 DATA FILE LAST UPDATED ON FEBRUARY 19, 1980

TOTAL FOR STATE(CP): DELAWARE

MISCELLANEOUS	EMISSIONS IN TONS PER YEAR				
	PART	SOX	NOX	HC	CO
EVAPORATIVE LOSS	0	0	0	22,084	0
18,931 TONS SOLVENT PURCHASED	0	0	0	18,931	0
315,300 THOUSAND GALLONS GASOLINE MARKETED	0	0	0	3,153	0
FUGITIVE DUST	11,396	0	0	0	0
3,805,000 VEHICLE MILES ON DIRT ROADS	11,396	0	0	0	0
0 LANDING-TAKEOFF CYCLES ON DIRT AIRSTRIPS	0	0	0	0	0
1,389 ACRES UNDER CONSTRUCTION	0	0	0	0	0
0 ACRES UNDER CULTIVATION	0	0	0	0	0
0 ACRES SUBJECT TO WIND EROSION	0	0	0	0	0
OTHER	198	0	28	173	944
549 ACRES BURNED BY FOREST WILDFIRES AT 2 TONS/ACRE	9	0	3	13	77
893 ACRES BURNED BY MANAGED BURNING AT 2 TONS/ACRE	15	0	3	21	125
210 ACRES AGRICULTURAL FIELD BURNING AT 10 TONS/ACRE	18	0	3	21	105
0 ORCHARD HEATERS FIRED ON 0 DAYS/YEAR	0	0	0	0	0
2,191 STRUCTURE FIRES	156	0	19	118	637

Figure 10. Area source report (continued)

AREA SOURCE CARDS FORMAT ON TAPE

GENERAL DESCRIPTION

The "Area Source Cards" report outputs selected data from NEDS onto computer cards or onto magnetic tape in the NEDS area source input format. Since only input data are reported, no calculated emissions are included.

RETRIEVALS AVAILABLE

Cards may be retrieved for the nation, for all counties in a state, or for selected individual counties. No sorts are available. Cards will be produced in order in ascending state-county sequence.

SAMPLE REPORT

Figure 11 gives the format of NEDS area source cards.

NATIONAL EMISSIONS DATA SYSTEM (NEDS)
ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF AIR PROGRAMS

AREA SOURCE
Input Form
Date

FORM APPROVED
OMB NO 158 R0095

Name of Person
Completing Form

State | County | AQCR
1 2 | 3 4 5 | 6 7 8 9

Year of Record | SIP EMISSION ESTIMATES (10^2 tons/yr): Particulate, SO_2, NO_x, HC, CO | SULFUR CONTENT (%): Anth Coal, Bitum Coal, Dist Oil, Resid Oil | ASH CONTENT (%): Anth Coal, Bitum Coal | RESIDENTIAL FUEL: Anth Coal (10^1 tons), Bitumen Coal (10^1 tons), Dist Oil (10^4 Gal), Resid Oil (10^4 Gal), Nat Gas (10^7 ft^3), Wood (10^2 tons) | Action | cd

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

A 1

COMMERCIAL AND INSTITUTIONAL FUEL: Anth (10^1 tons), Bitumen (10^1 tons), Dist Oil (10^4 Gals), Resid Oil (10^4 Gals), Nat Gas (10^7 ft^3), Wood (10^2 tons) | INDUSTRIAL FUEL: Anth Coal (10^1 tons), Bit Coal (10^1 tons), Coke (10^1 tons), Dist Oil (10^4 Gals), Resid Oil (10^4 Gals), Nat Gas (10^7 ft^3), Wood (10^2 tons), Process Gas (10^7 ft^3) | Action | cd

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

A 2

ON SITE INCINERATION: Residential (10^1 tons), Industrial (10^2 tons), Comm Inst (10^2 tons) | OPEN BURNING: Residential (10^2 tons), Industrial (10^2 tons), Comm Instit (10^2 tons) | GASOLINE FUEL: Light Vehicle (10^1 Gals), Heavy Vehicle (10^3 Gals), Off Hiway (10^3 Gals) | DIESEL FUEL: Heavy Vehicle (10^3 Gals), Off Hiway (10^4 Gals), Rail Locomotive (10^4 Gals) | Pea Cat | Action | cd

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

A 3

AIRCRAFT: Military LTO CYC (10^2) | Civil LTO CYC (10^1) | Commercial LTO CYC (10^1) | Coal (10^1 tons) | VESSELS: Diesel Oil (10^4 Gals), Resid Oil (10^4 Gals), Gasoline (10^3 Gals) | EVAPORATION: Solvent Purchased (tons yr), Gasoline Marketed (10^5 Gals) | MEASURED VEHICLE MILES: Limited Access Road (10^6 Miles), Rural Roads (10^6 Miles), Suburban Roads (10^6 Miles), Urban Roads (10^6 Miles) | Action | cd

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

A 4

Dirt Roads Traveled (10^3 Vehicle miles) | Dirt Air Strips LTO CYCLES | Construction Acres | Miscellaneous Wind Erosion (10^3 Acres) | Land Tilling (10^3 Acres) | FOREST WILDFIRES: Acres Burned, Tons Acres Burned | MANAGED BURNING (Slash Prescribed Burning): Acres Burned, Tons/Acres Burned | AGRICULTURAL FIELD BURNING: Acres Burned, Tons/Acres Burned | FROST CONTROL (10^2 Orchard Heaters Operating), Days/Year Days/year | STRUCTURE FIRES: Fires/year | Action | cd

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

A 5

COMMENTS | Action | cd

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

A 6

Figure 11. Area source cards format

NEDS AREA SOURCE FILE ON TAPE

GENERAL DESCRIPTION

This report produces a magnetic tape containing records in the NEDS area source file format. The NEDS area source file consists of one record for each county or county equivalent in the United States. Each record contains all the input data for each county as shown in Figure 11, plus calculated emissions for each area source category and for the county as a whole.

RETRIEVALS AVAILABLE

Area source records may be retrieved for all counties in the nation, all counties in a state, or for selected individual counties. No sorts are available. Records will be produced in order in ascending state-county sequence.

POINT SOURCE CARDS FORMAT ON TAPE

GENERAL DESCRIPTION

The "Point Source Cards" report selects data from NEDS and creates punched cards or a magnetic tape in the NEDS point source input format.

RETRIEVALS AVAILABLE

Cards may be retrieved and sorted by the NEDS general selection and sort programs described in the "General Selection and Sorting Capabilities Section."

SAMPLE REPORT

Figure 12 gives the format of NEDS point source cards.

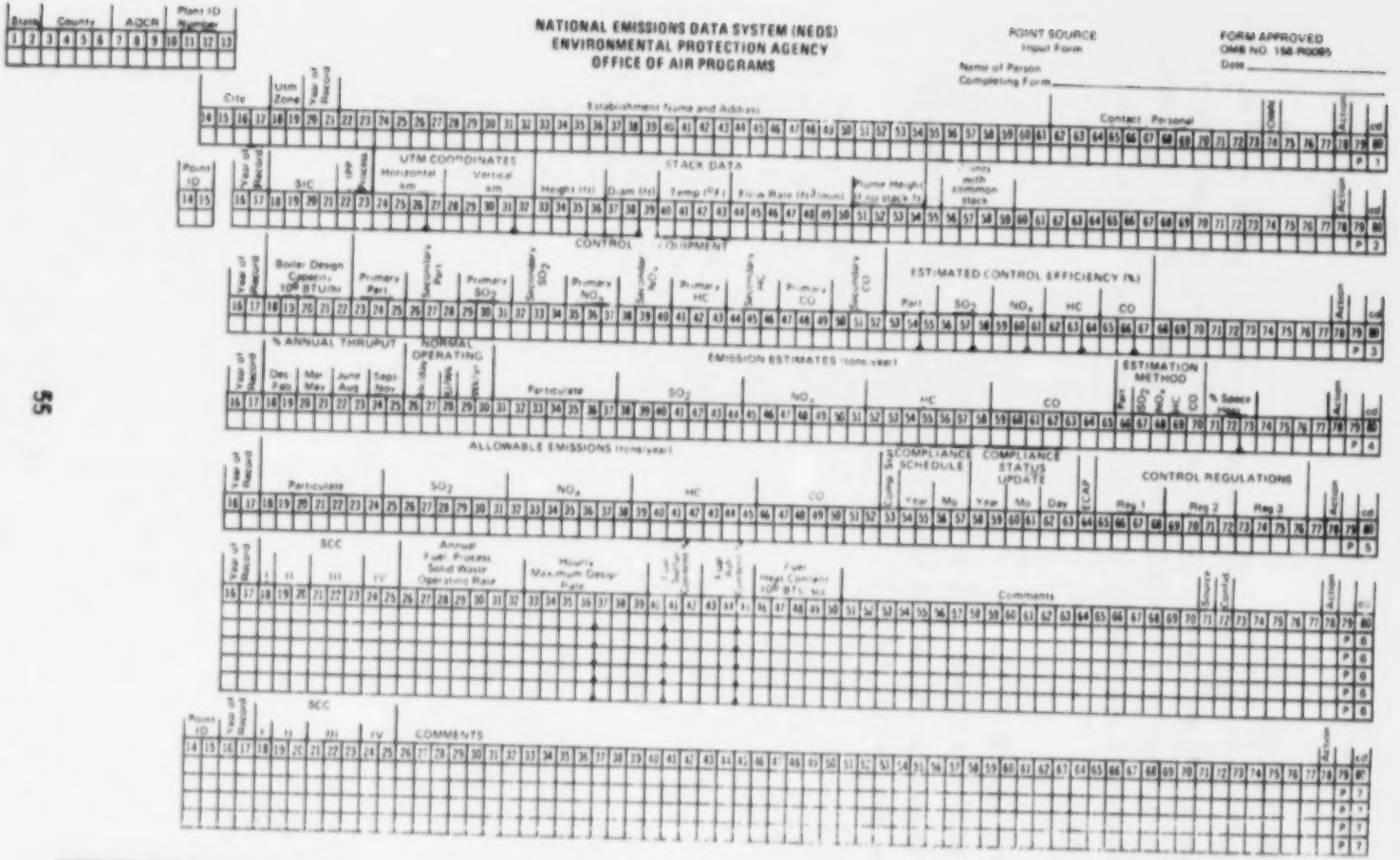

Figure 12. Point source cards format

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NEDS POINT SOURCE SUBFILE ON TAPE

GENERAL DESCRIPTION

The NEDS point source subfile contains records selected from the NEDS point source file on magnetic tape. Each record selected contains all point source input data plus computer calculated emissions. The NEDS-SUBFILE format is described in the "AEROS Summary and Retrieval Manual, Volume III.

RETRIEVALS AVAILABLE

The NEDS-SUBFILE may be selected and sorted according to the NEDS general selection and sorting capabilities discussed in the "General Selection and Sorting Capabilities Section."

EMISSION SUMMARY REPORT

GENERAL DESCRIPTION

The "Emission Summary Report" shows the annual number of tons of particulates, sulfur oxides, nitrogen oxides, hydrocarbons, and carbon monoxide emitted by source category within a given geographical area. The emission source categories included are:

- Fuel Combustion
  - Residential Fuel (Area)
  - Electric Generation (Point)
  - Industrial Fuel (Area and Point)
  - Commercial-Institutional Fuel (Area and Point)
  - Internal Combustion (Point)
- Industrial Process (Point)
  - 13 Categories
- Solid Waste Disposal
  - Government (Point)
  - Residential (Area)
  - Commercial-Institutional (Area and Point)
  - Industrial (Area and Point)
- Transporation (Area)
  - Land Vehicles
  - Aircraft
  - Vessels
- Miscellaneous (Area)

A grand total of emissions, subdivided in area and point source portions, is also printed.

RETRIEVALS AVAILABLE

The retrieval keys for the "Emission Summary Report" are as follows:

a. Nation
b. State
c. EPA Region
d. State/County
e. AQCR
f. State portions of interstate AQCRs
g. All counties in a state

SAMPLE REPORT

A sample "Emission Summary Report" is represented in Figure 13.

The format of this report is somewhat shorter when retrieval is for an area where all categories of emissions are not present because the inactive categories will be omitted.

NATIONAL EMISSIONS DATA SYSTEM

ENVIRONMENTAL PROTECTION AGENCY

STATE EMISSIONS REPORT

STATE 39:PENNSYLVANIA

RUN DATE: MONDAY MAY 12, 1980
AREA EMISSIONS AS OF: TUESDAY FEBUARY 19, 1980
POINT EMISSIONS AS OF: FRIDAY APRIL 18, 1980

	PARTICULATES TONS / YR	SOX TONS / YR	NOX TONS / YR	HC TONS / YR	CO TONS / YR
FUEL COMBUSTION					
EXTERNAL COMBUSTION					
RESIDENTIAL FUEL (AREA)					
ANTHRACITE COAL	3879	10205	1154	958	34535
BITUMINOUS COAL	753	1425	113	753	3379
DISTILLATE OIL	2297	26527	16584	919	4606
NATURAL GAS	1441	81	11506	1146	2880
WOOD	778	8	21	175	4169
TOTAL (RESIDENTIAL)	9038	38246	29372	3951	49569
ELEC GENERATION (POINT)					
ANTHRACITE COAL	58218	17963	12987	7	745
BITUMINOUS COAL	127256	1389495	332232	5393	17868
RESIDUAL OIL	5039	48850	40972	433	2167
DISTILLATE OIL	82	1566	1256	62	252
NATURAL GAS	0	0	135	0	11
OTHER	424	18033	1480	6	89
TOTAL (ELEC GEN)	191025	1475907	389062	5901	21132
INDUSTRIAL FUEL					
ANTHRACITE COAL					
POINT SOURCES	614	1946	697	7	275
BITUMINOUS COAL					
POINT SOURCES	106671	196980	46568	1228	2902
LIGNITE					
POINT SOURCES	1	4	2	0	1
RESIDUAL OIL					
AREA SOURCES	2207	15341	7249	117	605
POINT SOURCES	72073	70708	18822	550	29099
DISTILLATE OIL					
AREA SOURCES	279	3451	2636	116	600
POINT SOURCES	191	3543	1088	58	253
NATURAL GAS					
AREA SOURCES	371	18	6651	111	629

Figure 13. Emission summary report

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POINT SOURCES	904	56	14896	659	1779
PROCESS GAS					
POINT SOURCES	135	246524	1401	216	16
WOOD					
POINT SOURCES	1804	101	660	366	354
LIQUID PETROL GAS					
POINT SOURCES	2	0	1	0	0
OTHER					
POINT SOURCES	5	350	295	0	26
TOTAL (INDUSTRIAL)					
AREA SOURCES	2817	18830	16536	344	1834
POINT SOURCES	182348	520244	84420	3084	34705
COMM-INSTITUTIONAL FUEL					
ANTHRACITE COAL					
AREA SOURCES	5914	13443	5058	0	502
POINT SOURCES	3535	2714	1211	30	1196
BITUMINOUS COAL					
POINT SOURCES	3739	4131	1138	74	160
RESIDUAL OIL					
AREA SOURCES	2391	17890	8441	137	707
POINT SOURCES	618	7976	2555	47	218
DISTILLATE OIL					
AREA SOURCES	7	176	135	3	28
POINT SOURCES	12	100	58	4	13
NATURAL GAS					
AREA SOURCES	445	24	5548	369	927
POINT SOURCES	87	5	956	23	134
WOOD					
POINT SOURCES	176	453	557	104	1997
OTHER					
POINT SOURCES	1	4	2	0	0
TOTAL (COMM-INST)					
AREA SOURCES	8767	31579	19182	509	2164
POINT SOURCES	8126	15383	6477	282	3718
TOTAL (EXTERNAL COMB)					
AREA SOURCES	20622	88611	65090	4804	53567
POINT SOURCES	381493	2011534	479959	9267	59555
INTERNAL COMBUSTION (POINT)					
ELECTRIC GENERATION					
DISTILLATE OIL	615	906	2820	240	647
DIESEL	7	7	22	7	12
OTHER	99	138	331	0	0
TOTAL (ELEC GEN)	321	1051	3173	247	659
INDUSTRIAL FUEL					
DISTILLATE OIL	1	2	10	1	2
NATURAL GAS	2	0	57	0	7
DIESEL FUEL	2	18	39	3	5
TOTAL (INDUSTRIAL)	5	20	106	4	18

Figure 13. Emission summary report (continued)

TOTAL (INTERNAL COMB)	326	1071	3279	251	677
TOTAL (FUEL COMBUSTION)					
AREA SOURCES	20622	88611	65090	4804	53567
POINT SOURCES	781619	2012605	483236	9518	60232
INDUSTRIAL PROCESS (POINT)					
**********					
CHEMICAL MANUFACTURING	5390	4600	1319	15016	15037
FOOD/AGRICULTURAL	1607	454	131	14	11
PRIMARY METAL	113546	270543	11905	53743	529525
SECONDARY METALS	15493	3816	793	3576	18256
MINERAL PRODUCTS	188396	46690	16831	454	7593
PETROLEUM INDUSTRY	2112	28175	12000	26872	553
WOOD PRODUCTS	5040	575	254	1522	3609
ORGANIC SOLVENT EVAPORATION	536	76	452	66459	57
PETROLEUM STORAGE/TRANSPORT	20	145	4	14089	0
METAL FABRICATION	445	45	162	858	8
TEXTILE MANUFACTURING	270	0	1	7676	0
OTHER/NOT CLASSIFIED	584	203	178	724	8
TOTAL (INDUSTRIAL)	333379	355322	44030	187003	574657
SOLID WASTE DISPOSAL					
**********					
GOVERNMENT (POINT)					
MUNICIPAL INCINERATION	4119	1196	1290	1638	15891
OPEN BURNING	2	0	1	3	8
OTHER INCINERATION	41	44	199	44	0
TOTAL (GOVERNMENT)	4162	1240	1490	1685	15899
RESIDENTIAL (AREA)					
ON SITE INCINERATION	726	10	19	2047	6148
OPEN BURNING	11973	748	4495	22463	63610
TOTAL (RESIDENTIAL)	12699	758	4514	24510	69758
COMMERCIAL-INSTITUTIONAL					
ON SITE INCINERATION					
AREA SOURCES	176	55	63	106	247
POINT SOURCES	49	13	20	31	57
TOTAL (COMM-INST)					
AREA SOURCES	176	55	63	106	247
POINT SOURCES	49	13	20	31	57
INDUSTRIAL					
ON SITE INCINERATION					
AREA SOURCES	312	98	117	199	456
POINT SOURCES	272	154	156	249	647
OPEN BURNING					
POINT SOURCES	17	1	5	23	66

Figure 13. Emission summary report (continued)

RAIL CAP BURNING					
POINT SOURCES	2	0	0	2	4
TOTAL (INDUSTRIAL)					
AREA SOURCES	312	98	117	199	456
POINT SOURCES	297	155	161	274	717
TOTAL (SOLID WASTE DISP)					
AREA SOURCES	13191	911	4694	24815	70461
POINT SOURCES	4494	1409	1671	1990	16673
TRANSPORTATION (AREA)					
**********					
LAND VEHICLES					
GASOLINE					
LIGHT DUTY VEHICLES	198543	7506	201059	347283	2649154
LIGHT DUTY TRUCKS	37970	1992	44598	75850	539977
HEAVY DUTY VEHICLES	10654	862	27548	56155	546571
OFF HIGHWAY	596	306	6832	17400	212719
TOTAL (GASOLINE)	247758	10668	280037	496688	3948421
DIESEL					
HEAVY DUTY VEHICLES	21256	11371	85136	14965	97903
OFF HIGHWAY	2003	1793	22202	2430	6256
RAIL	2056	4688	30405	7724	10681
TOTAL (DIESEL)	25313	17852	137745	25119	114840
AIRCRAFT					
MILITARY	550	53	332	981	1763
CIVIL	10	3	16	311	14360
COMMERCIAL	196	443	4191	5093	10834
TOTAL (AIRCRAFT)	746	499	4539	6385	26957
VESSELS					
DIESEL FUEL	141	178	1325	348	465
RESIDUAL OIL	497	7208	1053	72	36
GASOLINE	3	52	243	8147	25920
TOTAL (VESSELS)	641	7438	2621	8567	26421
TOTAL (TRANSPORTATION)	274445	36457	424942	536759	4116639
MISCELLANEOUS (AREA)					
**********					
FOREST WILDFIRES	694	0	232	1384	8067
STRUCTURAL FIRES	3372	3	399	2519	13725
GASOLINE STA EVAP LOSS	0	0	0	51679	0
SOLVENT EVAPORATION LOSS	0	0	0	399610	0
UNPAVED ROADS	437362	0	0	0	0
UNPAVED AIRSTRIPS	98	0	0	0	0
TOTAL (MISCELLANEOUS)	441526	3	631	455192	21792

Figure 13. Emission summary report (continued)

GRAND TOTAL
****

AREA SOURCES	930[illegible]	125987	495357	1021570	4282459
POINT SOURCES	738693	2369330	528939	198511	651562
TOTAL	1669735	2495317	1024296	1220081	4914021

Figure 13. Emission summary report (continued)

ANNUAL FUEL SUMMARY REPORT

GENERAL DESCRIPTION

The "Annual Fuel Summary Report" summarizes fuel use by fuel type for both point and area sources in a specific geographic area. The area source fuel use data are reported for both stationary and mobile area sources. Stationary source fuel use is further subdivided into residential, industrial, and commercial-institutional categories. Mobile source fuel use is reported for light and heavy highway vehicles, railroads, off-highway vehicles (farm machinery, construction equipment, etc.) and vessels. The point source fuel use is broken down according to the kind of equipment in which the fuel is consumed--either external combustion equipment (boilers), internal combustion engines, or inprocess fuel use (dryers, furnaces, etc.). External and internal combustion categories are subdivided into electric utility, industrial, and commercial-institutional portions. Inprocess fuel use is all by industrial sources. The fuel types included are anthracite and bituminous coal, residual and distillate oil, natural gas, wood/bark, gasoline, diesel fuel, lignite coal, coke, bagasse, industrial process gas, liquified petroleum gas, jet fuel, solid waste, and liquid waste.

The date of file creation is included at the beginning of each report. Subtotals are printed for area and point sources, and a grand total is given for each fuel. Either English or metric units of measurement may be selected.

RETRIEVALS AVAILABLE

The retrieval keys for the "Annual Fuel Summary Report" are as follows:

a. Nation
b. State
c. County
d. AQCR
e. State portions of interstate AQCR's
f. All counties in a state

SAMPLE REPORT

A sample "Annual Fuel Summary Report" is presented in Figure 14.

STATE: PENNSYLVANIA

***

POTENTIAL EMISSIONS REPORT

GENERAL DESCRIPTION

The potential emissions report produces a report and/or files of uncontrolled emissions, maximum controlled emissions, and maximum uncontrolled emissions. Either a full or summary report may be specified with the summarization of calculations at the level specified by the user. Summarization may be specified at any one of the following levels:

a. National
b. State
c. County (State/County)
d. AQCR
e. State/AQCR
f. Plant (State/County/Plant)

Emission values are computed as follows:

1) Uncontrolled emissions = CALCULATED EMISSIONS VALUE* (100/(100 - CONTROL EFFICIENCY)),

2) Maximum Controlled Emissions = CALCULATED EMISSIONS VALUE*RATIO
WHERE RATIO = (MAXIMUM DESIGN RATE * HOURS-DAY* DAYS-WEEK*WEEKS-YEAR) /OPERATING RATE, and

3) Maximum Uncontrolled Emissions = UNCONTROLLED EMISSIONS * RATIO (See RATIO formula above).

RETRIEVALS AVAILABLE

The potential emissions report may be selected and sorted according to the information described in the "General Selection and Sorting Capabilities Section."

The sort selected should coincide with the level of summarization requested. That is, if summarization by plant is requested, sorting by

TUESDAY MAY 20, 1980 NATIONAL EMISSION DATA SYSTEM

	CALCULATED EMISSIONS (TONS/YR)	UNCONTROLLED EMISSIONS (TONS/YR)	MAXIMUM CONTROLLED EMISSIONS (TONS/YR)	MAXIMUM UNCONTROLLED EMISSIONS (TONS/YR)	ST CNTY PLNT PT SCC-CODE
* PART	0.240	0.240	0.462	0.462	08 0240 0077 01 10200403
SO2	3.195	3.195	6.134	6.134	
NOX	1.230	1.230	2.314	2.314	
HC	0.020	0.020	0.038	0.038	
CO	0.100	0.100	0.192	0.192	
* PART	0.019	0.019	0.036	0.036	08 0240 0078 01 10200503
SO2	0.419	0.419	0.790	0.790	
NOX	0.209	0.209	0.403	0.403	
HC	0.009	0.009	0.017	0.017	
CO	0.047	0.047	0.090	0.090	
* PART	0.000	0.000	0.000	0.000	08 0240 0079 01 30200504
SO2	0.000	0.000	0.000	0.000	
NOX	0.000	0.000	0.000	0.000	
HC	0.000	0.000	0.000	0.000	
CO	0.000	0.000	0.000	0.000	
* PART	0.000	0.000	0.000	0.000	08 0240 0080 01 30200504
SO2	0.000	0.000	0.000	0.000	
NOX	0.000	0.000	0.000	0.000	
HC	0.000	0.000	0.000	0.000	
CO	0.000	0.000	0.000	0.000	

TOTALS FOR STATE - 08

PART	23639.219	1988772.428	66620.072	3597499.974
SO2	314905.875	932264.675	193962.090	231344.379
NOX	24323.847	24613.647	44261.150	44814.779
HC	22657.249	352886.384	41959.444	678971.445
CO	9404.734	11532.434	16116.497	20317.859

GRAND TOTALS

PART	23639.219	1988772.428	66620.072	3597499.974
SO2	314905.875	932264.675	193962.090	231344.379
NOX	24323.847	24613.647	44261.150	44814.779
HC	22657.249	352886.384	41959.444	678971.445
CO	9404.734	11532.434	16116.497	20317.859

Reproduced from best available copy.

Figure 15. Potential emissions report

at least State/County/Plant, and preferably by State/County/Plant/Point/SCC should be performed. It is recommended that, in general, only sorts by State/County/Plant/Point/SCC or by calculated emissions be requested. Other sorts are possible but since other data items do not appear on the report output, the report may appear confusing or in random order if this is done.

SAMPLE REPORT

A sample page of the "Potential Emissions Report" is presented in Figure 15. In this example, only data for one state was selected, with the summarization at the state level requested.

PLANT EMISSION SUMMARY REPORT

GENERAL DESCRIPTION

The "Plant Emission Summary Report" lists the name, identifying geographic data, and criteria pollutant emissions for each plant in the region requested. For each of the five criteria pollutants, emission totals are printed, as well as subtotals for fuel combustion and process emissions. If the emissions total are different from the sum of fuel combustion and process emissions, the difference is the plant solid waste emissions.

RETRIEVALS AVAILABLE

The report may be selected and sorted according to the information described in the "General Selection and Sorting Capabilities Section."

SAMPLE REPORT

A sample page from the "Plant Emission Summary Report" retrieved for the Air Quality Control Region of Metropolitan Providence is presented in Figure 16.

Reproduced from best available copy.

PLANT EMISSIONS REPORT (TONS/YR)

UPDATE DATE: FRIDAY APRIL 18, 19PC PAGE 1

STATE	COUNTY	PLANT	AQCR	PLANT NAME AND ADDRESS		PART	SO2	NOX	HC	CO
41	0320	0001	120	CORNING GLASS,1193ROAD ST,CENTRAL FALLS	PROCESS TOTAL	0	0	0	0	0
					FUEL COMB TOTAL	4	48	22	15	2
					PLANT TOTAL	4	48	22	15	2
41	0320	0004	120	ATLANTIC TUBING&RUBBER MILL ST.CRANSTON	PROCESS TOTAL	0	0	0	0	0
					FUEL COMB TOTAL	8	112	42	1	4
					PLANT TOTAL	8	112	42	281	4
41	0320	0005	120	CIBA-GEIGY CHEM,[illegible] MILL ST. CRANSTON	PROCESS TOTAL	0	0	0	368	0
					FUEL COMB TOTAL	14	179	69	1	6
					PLANT TOTAL	14	179	69	399	6
41	0320	0006	120	CRANSTON PRINT,1381 CRANSTON ST,CRANSTON	PROCESS TOTAL	0	0	0	15	0
					FUEL COMB TOTAL	10	127	53	1	5
					PLANT TOTAL	10	127	53	58	5
41	0320	0007	120	FAIRMONT-GRINNELL,1341ELMWOOD AV,CRANSTN	PROCESS TOTAL	27	0	0	0	0
					FUEL COMB TOTAL	7	88	35	1	3
					PLANT TOTAL	34	88	35	1	3
41	0320	0008	120	NARRAGANSETT PHEW,NEW DEPOT AVE,CRANSTON	PROCESS TOTAL	0	0	0	0	0
					FUEL COMB TOTAL	24	322	122	2	10
					PLANT TOTAL	24	322	122	2	10
41	0320	0009	120	UNITED WIRE,1497 ELMWOOD AVE,CRANSTON	PROCESS TOTAL	4	0	0	0	0
					FUEL COMB TOTAL	2	26	13	0	1
					PLANT TOTAL	6	26	13	269	1
41	0320	0011	120	HIGGINSON,DEXTER ROAD,PHILIPSDALE,E.PROVD	PROCESS TOTAL	0	0	0	0	0
					FUEL COMB TOTAL	40	527	214	4	18
					PLANT TOTAL	40	527	214	4	18
41	0320	0012	120	CAMPANELLA CORP,TAUNTON AVE,PROVIDENCE	PROCESS TOTAL	0	0	0	0	0
					FUEL COMB TOTAL	0	0	0	0	0
					PLANT TOTAL	0	0	0	0	0
41	0320	0013	120	MOBIL OIL,1601 WAMPANOAG TR,E.PROVIDENCE	PROCESS TOTAL	13	102	44	19	3
					FUEL COMB TOTAL	31	416	157	3	13
					PLANT TOTAL	44	518	201	656	16
41	0320	0014	120	WASHBURN WIRE CO,BOURNE AVE,E.PROVIDENCE	PROCESS TOTAL	8	0	12	0	0
					FUEL COMB TOTAL	65	855	153	3	13
					PLANT TOTAL	72	855	165	3	13
41	0320	0017	120	SEABOARD FOUNDRY,67 JOHN ST,JOHNSTON	PROCESS TOTAL	1	0	0	0	218
					FUEL COMB TOTAL	0	0	0	0	0
					PLANT TOTAL	1	0	0	0	218
41	0320	0018	120	TOWN ASPHALT,[illegible] ALLENDALE AVE,JOHNSTON	PROCESS TOTAL	0	0	0	0	0
					FUEL COMB TOTAL	0	0	0	0	0
					PLANT TOTAL	0	0	0	0	0
41	0320	0019	120	COLLYER INS WIRE,[illegible] HIGGINSON,LINCOLN	PROCESS TOTAL	0	0	0	0	0
					FUEL COMB TOTAL	2	40	15	0	1
					PLANT TOTAL	2	40	15	6	1

Figure 16. Plant emission summary report

SCC EMISSIONS REPORT

GENERAL DESCRIPTION

For each combination of state, county, and SCC that appears in the NEDS point source file, the SCC Emissions Report prints the state code, county code, SCC, number of occurrences, and the total emissions of each of the five NEDS pollutants.

RETRIEVALS AVAILABLE

The "SCC Emissions Report" may be retrieved only for the nation.

SAMPLE REPORT

A sample "SCC Emissions Report" for the first few counties of Alabama is presented in Figure 17.

*****SCC EMISSIONS REPORT (TONS/YR)***** UPDATE DATE: SUNDAY JUNE 15, 1975

STATE: 01 *****		SCC ***	FREQ ****	PART ****	SO_2 ***	NO_X ***	HC **	CO **
	COUNTY							
	0240	10200401	(001)	6.3	2,994.3	0.0	0.0	0.0
		10200601	(001)	5.1	8.1	0.0	0.0	0.0
		10200902	(001)	967.6	1,029.6	0.0	0.0	0.0
		30700103	(001)	0.0	0.0	0.0	0.0	0.0
		30700104	(001)	110.0	815.5	0.0	0.0	0.0
		30700105	(001)	17.0	0.0	0.0	0.0	0.0
		30700106	(001)	140.0	0.0	0.0	0.0	0.0
		30700107	(001)	0.0	0.0	0.0	0.0	0.0
		30900199	(001)	278.0	0.0	0.0	0.0	0.0
		39000499	(001)	0.0	0.0	0.0	0.0	0.0
		39000503	(001)	0.0	0.0	0.0	0.0	0.0
		39000603	(001)	0.0	0.0	0.0	0.0	0.0
	0260	30500201	(001)	30.6	0.0	0.0	0.0	0.0
		50300105	(002)	33.0	0.3	23.0	48.0	438.0
	0280	30300001	(001)	18.0	0.0	0.0	0.0	0.0
		30500501	(001)	337.1	0.0	0.0	0.0	0.0
		30500502	(001)	7,200.0	0.0	0.0	0.0	0.0

Figure 17. SCC emissions report

PLANT NAME REPORT

GENERAL DESCRIPTION

The "Plant Name Report" gives one line of information concerning each plant requested. Included are plant ID, plant name, plant contact, a count of points and SCC's, UTM coordinates, and the plant comment field.

RETRIEVALS AVAILABLE

The plant name report may be selected and sorted according to the information described in the "General Selection and Sorting Capabilities Section."

When sorting the plant name report, requestors should be aware that the report has a page break on county so that it is desirable to begin each sort selected with state/county. The two sorts recommended for use with the "Plant Name Report" are:

State/County/Plant Name/Plant ID/Point ID/SCC
State/County/Plant ID/Point ID/SCC

The first step is an alphabetical ordering by plant name and the second a numerical ordering by plant ID. If one of the above sorts is not used, the plant name may appear several times and the SCC count may be incorrect.

SAMPLE REPORT

A sample "Plant Name Report" for the State of Rhode Island and the County of Providence is presented in Figure 18--sorted by plant name.

NEDS-USER FILE CREATED ON FRIDAY APRIL 18, 1980 NEDS-SUBFILE CREATED ON TUESDAY MAY 13, 1980 PAGE 41-0001

NATIONAL EMISSIONS DATA SYSTEM

POLLUTANT: ALL POLLUTANTS, MINIMUM VALUE 000000, SHORT TONS (ENGLISH UNITS), 3 SIGNIFICANT DIGITS, POINT SOURCES ONLY

STATE (41): RHODE ISLAND COUNTY (032C): PROVIDENCE CO

PLANT ID	P L A N T N A M E		PLANT CONTACT	COUNT OF PT	SCC	UTM COORD X	Y	P L A N T C O M M E N T
0003	CORNING GLASS,1193BROAD ST,CENTRL FALLS		TUCKERMAN	6	10	301.8	4640.7	
0004	ATLANTIC TUBING&RUBBER MILL ST.CRANSTON		J.DAEHLING	5	10	299.3	4626.3	
0005	CIBA-GEIGY CHEM,180 MILL ST. CRANSTON		J.CROWLEY	4	4	299.5	4626.4	
0006	CRANSTON PRINT,1381 CRANSTON ST,CRANSTON		M.KLICKA	7	8	295.7	4629.3	
0007	FAIRMONT-GRINNELL,1341ELMWOOD AV,CRANSTN		E.STONE	7	7	298.5	4627.1	
0008	NARRAGANSETT BREW,NEW DEPOT AVE,CRANSTON		ULMSCHNEIDER	4	4	296.9	4630.4	
0009	UNITED WIRE,1497 ELMWOOD AVE,CRANSTON		BAKER	8	9	298.3	4626.6	
0011	BIRDSON,DEXTER ROAD,PHILIPSDALE,E.PROVD		R.WILLIAMS	2	2	303.3	4634.2	
0012	CAMPANELLA CORP,TAUNTON AVE,PROVIDENCE		MACDONALD	1	1	304.4	4632.2	
0013	MOBIL OIL,1001 WAMPANOAG TR,E.PROVIDENCE		A.FULLER	22	37	305.2	4628.5	
0014	WASHBURN WIRE CO.BOURNE AVE,E.PROVIDENCE		F.TURNER	2	2	303.2	4634.5	
0017	SEABOARD FOUNDRY,63 JOHN ST,JOHNSTON		SLEICHER	1	1	293.0	4629.7	
0018	TOWN ASPHALT,100 ALLENDALE AVE,JOHNSTON		MR.LIBUTTI	1	1	293.9	4635.9	
0019	COLLYER INS WIRE,100 HIGGINSON,LINCOLN		BALLOU	3	3	300.1	4639.7	
0023	STAMINA MILLS,MAIN ST,NORTH SMITHFIELD		AL FREITAS	2	2	287.5	4652.4	
0024	AMER.INS.WIRE,36 FREEMAN ST,PAWTUCKET		PEARCE	5	8	303.5	4639.6	
0025	BLACKSTONE VALLEY PWR PLANT,PAWTUCKET		MR.WILLIAMS	14	14	302.3	4637.5	
0026	LEBANON KNITTING,721 SCHOOL ST,PAWTUCKET		MR.LUND	3	3	302.8	4636.8	
0028	HOPE ERCO BUILDINGS,1005 MAIN,PAWTUCKET		MR.DICENZO	1	1	300.6	4637.0	
0029	TEKNOR APEX,505 CENTRAL AVE,PAWTUCKET		MR.IZZO	3	4	304.0	4639.5	
0030	PAWT DYEING,1110 CENTRAL AVE,PAWTUCKET		MR SEIDEL	1	1	305.8	4640.3	
0031	PAWTUCKET INCINERATOR,PAWTUCKET		KACHANIS	1	1	300.1	4637.9	
0032	BROWN&SHARPE,WATERMAN AVE,PROVIDENCE		GREENSLADE	2	2	298.8	4633.5	
0033	BROWN UNIVERSITY,PROVIDENCE		MR.REMY	3	3	300.8	4633.7	
0034	DAVOL INC. 69 POINT ST.,PROVIDENCE		D.DAY	7	8	300.2	4632.2	
0035	GORHAM DIV.TEXTRON,333 ADELAIDE,PROVIDNC		D.WITHIM	5	6	298.2	4629.6	
0036	MIRIAM HOSPITAL,164 SUMMIT AV,PROVIDENCE		B.LAWSON	1	1	300.8	4635.8	
0037	NARRAGANSETT ELECTRIC CO,PROVIDENCE		GLENGLANNON	8	10	300.0	4632.3	
0038	NRAGANST IMPRUMNT,223 ALLENS,PROVIDENCE		MR.EVERSON	2	2	300.3	4631.0	
0039	NARRAGANSETT ELEC MANCHSTR ST STA PROVIDN		GLENGLANNON	7	7	300.1	4631.9	
0043	R.I.HOSPITAL,593 EDDY ST,PROVIDENCE		A.PELIGIAN	1	1	299.7	4631.3	
0044	ST JOSEPH'S HOSPITAL,PEACE ST,PROVIDENCE		MR.LAFAZIA	1	1	298.8	4630.9	
0045	UNIROYAL INC,10 EAGLE ST,PROVIDENCE		P.MCGUIRE	10	19	297.6	4633.5	
0046	WORCESTER TEXTILE,GRAYSTONE,PROVIDENCE		C.REYNOLDS	1	1	293.3	4637.5	
0048	NARRAGANSETT FNDRY,WHIPPLE AV,SMITHFIELD		J.MURPHY	1	1	292.0	4639.9	
0049	CUMBERLAND FNDRY,W WRENTHAM RD,WOONSOCKT		ORTENZI	1	2	297.3	4653.6	
0051	FAIRMOUNT FNDRY,25 SECOND ST,WOONSOCKET		PHETTEPLACE	1	2	291.6	4653.2	
0054	WOONSOCKET INCINERATOR,WOONSOCKET		P.GRANIERI	1	1	293.3	4652.8	
0055	OWENS-CORNING FIBERGLAS,CUMBERLAND		G.FLETCHER	4	4	298.3	4645.4	
0056	CAROL CABLE,AIR INDUST PARK,LINCOLN		JIM EATON	2	2	294.1	4644.3	
0058	MEMORIAL HOSP,PROSPECT ST,PAWTUCKET		R.KOWALSKI	1	1	302.7	4637.8	
0059	LAWSON HEMPHILL,96 HADWIN,CTR FLS	02863	P HOYT	1	1	301.5	4640.5	
0060	ELIZ WEBNG MLS,521 ROOSVLT,CTR FLS	02863	R LEMOUREUX	1	1	302.3	4639.1	
0061	SPECIAL FABRICS,WALKER ST LINCOLN	02865	J WILKINSON	1	1			
0062	PLOUNT UM,19 BENEFIT,PAWTCKT	02861	C CHITO	2	4	302.8	4639.4	

Figure 18. Plant name report

EMISSIONS BY SCC REPORT

GENERAL DESCRIPTION

This report summarizes, by SCC, the calculated emissions for the five major pollutants (particulate, nitrogen oxides, sulfur oxides, hydrocarbons and carbon monoxide). All data selected are summarized by SCC and total emissions are provided for the four parts of each SCC. The report also gives the number of records for each SCC, for both complete SCC's and component parts, and total process throughput for each complete SCC (Parts I + II + III + IV).

RETRIEVALS AVAILABLE

Generally, only reports by nation, state, AQCR or county will be meaningful. Should the need exist, any of the NEDS general selection and sorting capabilities may be used to produce the report. To be meaningful, however, the report must be sorted by SCC. Otherwise, the report output will not appear in any logical order.

SAMPLE REPORT

A sample page of the "Emissions by SCC Report" is presented in Figure 19. A report will produce multiple pages showing data for all SCCs in the selected file.

NATIONAL EMISSONS DATA SYSTEM

EMISSIONS BY SOURCE CLASSIFICATION CODE

			PART	SOX	NOX	HC	CO
1 01 002 01 FOR EXTCOMB BOILER	7 RECORDS WITH THRUPUT OF ELECTRIC GENERATN BITUMINOUS COAL	3,571,855 TONS BURNED PULV COAL WET BOT	5,014	28,488	53,577	535	1,785
1 01 002 02 FOR EXTCOMB BOILER	3 RECORDS WITH THRUPUT OF ELECTRIC GENERATN BITUMINOUS COAL	936,500 TONS BURNED PULV COAL DRY BOT	7,444	17,106	19,908	140	468
1 01 002 FOR EXTCOMB BOILER	6 RECORDS ELECTRIC GENERATN BITUMINOUS COAL		12,459	45,594	73,486	676	2,254
1 01 004 01 FOR EXTCOMB BOILER	8 RECORDS WITH THRUPUT OF ELECTRIC GENERATN RESIDUAL OIL	77,947 1000GALLONS BURNED NO 6 OIL NORM FRG	357	4,368	4,083	38	194
1 01 004 FOR EXTCOMB BOILER	8 RECORDS ELECTRIC GENERATN RESIDUAL OIL		357	4,368	4,083	38	194
1 01 005 01 FOR EXTCOMB BOILER	6 RECORDS WITH THRUPUT OF ELECTRIC GENERATN DISTILLATE OIL	2,726 1000GALLONS BURNED NO 1 AND NO 2 OIL	3	32	116	1	6
1 01 005 FOR EXTCOMB BOILER	6 RECORDS ELECTRIC GENERATN DISTILLATE OIL		3	32	116	1	6
1 01 006 01 FOR EXTCOMB BOILER	11 RECORDS WITH THRUPUT OF ELECTRIC GENERATN NATURAL GAS	30,639 MILLION CUBIC FEET BURNED >100MMBTU/HR EXTF	125	8	10,723	14	245
1 01 006 FOR EXTCOMB BOILER	11 RECORDS ELECTRIC GENERATN NATURAL GAS		125	8	10,723	14	245
1 01 FOR EXTCOMB BOILER	31 RECORDS ELECTRIC GENERATN		12,944	50,004	88,410	731	2,701

Figure 19. Emissions by SCC report

SIC EMISSIONS REPORT

GENERAL DESCRIPTION

The "SIC Emissions Report" shows total emissions of particulates, sulfur oxides, nitrogen oxides, hydrocarbons and carbon monoxide by Standard Industrial Classification (SIC) code. The report also identifies the number of plants with each SIC code. If different emission points at a plant have different SICs recorded, the plant will be counted in the report once for each unique SIC that appears. Thus, a plant with three different SICs would be tabulated as three plants in the report.

RETRIEVALS AVAILABLE

The "SIC Emissions Report" may be produced for the following levels of summarization:

a. National
b. State
c. AQCR
d. State portion of interstate AQCR
e. State/County
f. All counties in a state

Records may be selected from the file according to any of the NEDS general selection capabilities and summarized for any of the geographic areas shown above. For the report to be meaningful, the selected records must be sorted by SIC. Thus, no other sorts are applicable.

SAMPLE REPORT

Figure 20 is an example of a SIC Emissions Report.

NEDS SIC EMISSIONS REPORT (TONS/YEAR)

SUMMARY FOR: STATE(KY) - BLUEGRASS COUNTY(CO60) - KENT CO

SIC	NUMBER OF FACILITIES	PARTICULATES	SOX	NOX	HC	CO
2035	1	<1	7	1	<1	<1
2046	1	2	34	8	<1	<1
2033	1	<1	5	<1	<1	<1
2035	2	1	16	3	<1	<1
2037	1	4	54	14	<1	1
2042	1	<1	9	1	<1	<1
2099	1	172	930	121	2	10
2335	1	<1	<1	<1	<1	<1
2422	1	<1	1	<1	86	<1
2868	1	<1	<1	<1	<1	<1
2869	1	147	814	148	2	32
2821	1	11	151	28	249	742
2951	1	27	7	2	<1	<1
3089	1	42	297	47	<1	4
3271	1	1	4	1	<1	<1
3499	1	<1	<1	<1	<1	<1
3961	1	<1	3	2	<1	<1
4911	1	463	8167	2058	19	99
5153	4	1	0	0	0	0
5172	1	0	0	0	7	0
5983	2	0	0	7	0	0
7211	1	<1	<1	<1	<1	<1
7629	1	1	<1	20	1	3
8061	1	<1	4	5	<1	<1
8062	1	4	53	20	<1	1
8211	35	9	124	47	<1	6
8219	1	<1	<1	<1	<1	<1
8221	2	1	13	9	<1	1
8222	1	<1	2	1	<1	<1
9145	1	21	281	112	2	12
TOTALS:	76	939	9797	2664	380	897

Figure 20. SIC emissions report

COUNTY POINT AND AREA SOURCE EMISSIONS REPORT

GENERAL DESCRIPTION

This report outputs a detailed and/or summary listing showing total county point and area source emissions. The detailed format report lists each point source individually in each county giving the plant ID, plant name and address, plant contact name, AQCR, city code, UTM coordinates, number of emission points, most recent year of record of any emission point, and emissions of each of the five pollutants in tons per year. Pollutant emissions marked by an asterisk indicate the existence of at least one emission point at the plant with emissions of more than 25 tons per year. The detailed report also indicates the total number of plants in the county with emissions of more than 100 tons per year, and gives the total point and area source emissions for the county. The summary listing shows only total point and area source emissions for the county and the number of plants emitting more than 100 tons per year of each pollutant.

RETRIEVALS AVAILABLE

Either the detailed or summary report or both may be produced. Point source data may be selected by the NEDS general selection procedures. Area source data may be selected only for all counties in a state. Thus, it is most meaningful to produce the report only for all counties in a state.

SAMPLE REPORTS

A detailed "County Point and Area Source Emissions Report" is shown in Figure 21. A summary report is shown in Figure 22.

STATE:DE COUNTY:D60

PLNT	NAME AND ADDRESS	CONTACT	ABR	CITY	UTMX	UTMY	PT	YR	PARTIC	SO2	NOX	HC	CO
0001	DOVER AFB	BANDRAGE	046	0020	4597	43306	04	79	21	282•	112•	2	92
0002	DOVER POWER PLT WALKER RD DOVER 19901	MR JAMES	046	0020	4531	43359	04	79	404•	6167•	2059•	2C	99•
0003	CARL KING INC,109 S.MAIN ST,CAMDEN 19934	KING,CARL	046		4530	43289	03	79	0	0	0	0	0
0004	SCOTT PAPER COMPANY PO BOX 895 DOVER DE	JAMES ALSTON	046		4524	43333	04	78	147•	614•	149•	2	92
0005	BIL MORE AND HOSP SMYRNA 19977	R.M.MINNICH	046	0220	4480	43490	02	79	4	54•	20	C	2
0006	DOVER DEPT & MACHINE DT 113 DOVER 19901	BOB BARROW	046	0020	4590	43285	01	79	28•	7	2	C	1
0007	GENERAL FOOD CORP BOX 600 DOVER DEL	GUIRDY	046	0020	4530	43335	15	79	172•	938•	122•	2	11
0008	660 E DUTWELL,DL #2,115 S MAIN ST,19977	MCGINNIS,F	046	0220	4455	43490	02	79	1	0	0	C	0
0009	INTERNATIONAL PLATES CORP PLANT 1 DOVER	PAUL F.SHARE	046	0020	4555	43355	03	79	23	297•	48•	1	4
0011	PENINSULA OIL CO,MILL ST,MILFORD 19963	MCDONOUGH,D	046	0120	4620	43070	02	79	0	0	0	1	C
0012	PENINSULA OIL-HARRINGTON,BOX 389,SEAFORD	WHITTENDEN	046	0050	4505	43079	02	79	0	0	0	1	0
0015	WYOMING CONCRETE INDUSTRIES SOUTHERN BLV	DIMONDI,F R	046		4515	43293	03	79	3	3	2	C	0
0016	REICHHOLD POLYMERS INC PO DRAWER R DOVE	MCCRYSTAL	046		4508	43394	11	79	11	151•	29•	249•	742•
0018	CONSOLIDATED THERMOPLASTICS CO HARRINGTO	ROBIN	046		4501	43058	03	79	0	3	2	C	1
0019	GENCO INC 606 MARSHALL ST MILFORD DEL	KENTON	046		4623	43056	01	79	0	C	C	C	0
0020	DOVER PRODUCTS CO RT 5 BOX 74 DOVER DEL	BRAUN	046	0020	4513	43382	01	79	1	9	2	C	C
0021	SWEET FRESH FARMS PO BOX 8 WOODSIDE DEL	CONNORS	046		4508	43245	01	78	0	6	1	C	0
0022	SAN DEL PACKING CO SANDTOWN P O GOLDSBOR	RECHAY	046		4400	43217	01	79	1	14	3	C	0
0023	J G VAN WOLTEN & SON INC PO BOX 6 KENTON	SOMERVILLE	046		4429	43419	01	79	0	C	0	C	0
0024	WHEATLY INC CLAYTON DEL	RICHARDS	046		4445	43491	02	79	5	55•	14	C	2
0025	PERDUE INC FELTON DELAWARE	RALPH MOORE	046		4500	43175	01	78	3	34•	6	C	1
0026	KENT GENERAL HOSPITAL DOVER DEL	ABRAHAM	046	0020	4550	43330	02	79	0	5	5	C	1
0027	ACE DRESS CO PO BOX 133 HARRINGTON DEL	PEARSON	046		4510	43080	01	79	0	0	0	0	0
0028	GEN HENRY M ARNOLD ELEMENTARY SCHOOL	COOPER	046	0020	4579	43295	01	79	0	2	1	C	0
0029	W REILY BROWN WEBBS LANE DOVER DEL	COLEMAN	046	0020	4541	43321	01	79	0	2	1	C	0
0030	JOHN S CHARLTON SCHOOL RT 2 CAMDEN DEL	COLEMAN	046		4561	43278	01	79	0	1	0	C	0
0039	CLAYTON ELEMENTARY SCHOOL MAIN ST CLAYTO	JONES	046		4432	43489	01	79	0	2	1	C	C
0040	NORTH SMYRNA ELEMENTARY SCHOOL SMYRNA	JONES	046	0220	4478	43509	01	79	0	2	1	C	0
0041	SMYRNA ELEMENTARY SCHOOL S ST SCHOOL LAN	JONES	046	0220	4451	44703	01	79	0	3	1	C	0
0042	SMYRNA HIGH SCHOOL DUCK CREEK PARKWAY	JONES	046	0220	4452	43502	01	79	0	5	2	C	0
0043	SMYRNA MIDDLE SCHOOL FRAZIER ST SMYRNA	JONES	046	0220	4575	43501	01	79	0	6	2	C	0
0044	HOLY CROSS HIGH & ELEMENTARY SCHOOL DOVE	SISTER MARIE	046	0020	4551	43335	01	79	0	1	0	C	0
0045	CAPITOL CLEANERS & LAUNDERERS INC DOVER	E S OUTTEN	046	0020	4543	43342	01	78	0	1	0	C	0
0046	DELAWARE STATE COLLEGE DOVER DE	MISHOE	046	0020	4529	43376	04	78	1	18	7	C	1
0047	GENERAL METALCRAFT MCKEE ROAD DOVER	FORSYTH	046	0020	4519	43371	03	78	0	1	1	86•	5
0048	HARRINGTON DRY CLEANERS HARRINGTON	SIMPSON	046	0050	4494	43079	01	78	0	0	0	C	0
0049	HARRY LOUIES LAUNDRY & DRY CLEANING	DAVIE LOUIE	046	0020	4547	43344	01	78	0	0	0	C	0
0070	NATIONAL CUP COMPANY DOVER DEL	FITZGERALD	046		4508	43382	01	78	0	0	0	C	0
0071	SOUTHERN STATES DOVER PETROLEUM COOPERAT	MANAGER	046	0020	4542	43334	01	79	0	0	7	C	0
0072	SOUTHERN STATES SMYRNA-CLAYTON	MANAGER	046	0220	4461	43436	01	79	0	0	0	6	C
0073	WESLEY COLLEGE COLLEGE SQUARE DOVER DEL	CAMPUS MANAG	046	0020	4544	43352	06	78	0	5	3	C	1
0074	SCHIFF MILLING COMPANY HARRINGTON	WALTER SCHIF	046	0050	4510	43097	01	79	0	0	0	C	0
0075	BAYSHORE FOODS INC MILFORD DEL	GUY PARKS	046		4647	43078	01	78	1	7	2	C	0
0076	A R PERVAIS COMPANY RD #5 BOX102-AB DOVE	MANAGER	046		4508	43398	01	78	2	C	21	1	3
0077	PHILLIP CARTANZA RD #3 BOX 336 DOVER DEL	P CARTANZA	046		4597	43356	01	79	0	0	0	C	C
0078	KILLEN GRAIN COMPANY HARRINGTON DEL	A H BALFANY	046	0050	4506	43067	01	79	0	0	0	C	0
0079	DELAWARE TECHNICAL & COMMUNITY COLLEGE	I W LITTLE	046		4515	43387	01	78	0	2	1	C	0
		NUMBER OF PLANTS >100 TONS PER YEAR							0000003	0000006	0000004	0000001	0000001
		TOTAL COUNTY POINT SOURCE EMISSIONS							839.	8797.	2664.	381.	897.
		(046) 1979 COUNTY AREA SOURCE EMISSIONS							6028.	991.	6398.	10122.	49632.

Figure 21. County point and area source emissions report

NEDS POINT AND AREA SOURCE EMISSIONS

ST	CNTY	ABR	YR		PARTIC	SO2	NOX	HC	CO	NUMBR PAR	PLANTS>100TONS SO2	NOX	HC	CO
08	0060			POINT	839.	8797.	2664.	381.	897.	3	6	4	1	1
		046	79	AREA	6028.	991.	6398.	10122.	49632.					
08	0180			POINT	14599.	69504.	13992.	21610.	8032.	9	25	14	11	3
		045	79	AREA	16494.	4263.	19864.	43038.	215529.					
08	0240			POINT	18202.	34605.	7668.	666.	475.	2	5	3	2	1
		046	79	AREA	8456.	829.	6454.	9545.	43006.					

Figure 22. County point and area source emissions summary report

MODELING PARAMETERS

GENERAL DESCRIPTION

This report is designed to list maximum, minimum, and average values of selected data items of interest for air quality modeling purposes. These values are reported for each NEDS Source Classification Code (SCC). The report also shows the number of occurrences of each SCC. Data items for which maximum, minimum and average values are computed are stack height and diameter, exhaust gas temperature and flow rate, plume height if no stack, annual operating rate, and annual controlled and uncontrolled emissions of each pollutant.

RETRIEVALS AVAILABLE

The report is available only for the nation.

SAMPLE REPORT

A sample report page is shown in Figure 23. All SCCs will be listed in the complete report.

SCC	NO. OF SOURCES		STACK HEIGHT (FT)	DIAMETER (FT)	TEMP (F)	FLOW (ACFM)	PLUME HEIGHT (FT)	HOURS/ YEAR	OPERATING RATE	
10100204	14	AVG	241.	8.2	991.	231781.	0.	6740.	454%.	TONS BURNED
		MAX	450.	15.0	750.	779960.	0.	8736.	182000.	
		MIN	72.	1.3	308.	2821.	0.	869.	12%.	
	CONTROLLED		PARTICULATES (TONS/YR)	SO2 (TONS/YR)	NOX (TONS/YR)	HYDROCARBONS (TONS/YR)	CO (TONS/YR)			
		AVG	291.967	3875.503	604.346	3.543	27.478			
		MAX	2378.937	19850.000	2140.000	18.000	120.000			
		MIN	10.000	7.000	.000	.000	.000			
	UNCONTROLLED		PARTICULATES (TONS/YR)	SO2 (TONS/YR)	NOX (TONS/YR)	HYDROCARBONS (TONS/YR)	CO (TONS/YR)			
		AVG	9478.613	3875.503	604.346	3.543	27.478			
		MAX	96000.000	19850.000	2140.000	18.000	120.000			
		MIN	10.000	7.000	.000	.000	.000			

SCC	NO. OF SOURCES		STACK HEIGHT (FT)	DIAMETER (FT)	TEMP (F)	FLOW (ACFM)	PLUME HEIGHT (FT)	HOURS/ YEAR	OPERATING RATE	
10100207	20	AVG	139.	7.6	348.	30209.	0.	5251.	125%.	TONS BURNED
		MAX	225.	12.0	960.	69942.	0.	8736.	473%.	
		MIN	60.	.8	105.	1760.	0.	672.	100.	
	CONTROLLED		PARTICULATES (TONS/YR)	SO2 (TONS/YR)	NOX (TONS/YR)	HYDROCARBONS (TONS/YR)	CO (TONS/YR)			
		AVG	340.408	430.219	101.689	1.729	5.969			
		MAX	1193.000	1712.679	399.000	6.000	19.000			
		MIN	.990	.000	.000	.000	.000			
	UNCONTROLLED		PARTICULATES (TONS/YR)	SO2 (TONS/YR)	NOX (TONS/YR)	HYDROCARBONS (TONS/YR)	CO (TONS/YR)			
		AVG	1339.968	430.219	109.689	1.729	5.969			
		MAX	6178.378	1712.679	399.000	6.000	19.000			
		MIN	8.250	.000	.000	.000	.000			

Figure 23. Modeling parameters report

PLANT-POINT-SCC COUNT REPORT

GENERAL DESCRIPTION

The "Plant-Point-SCC Count Report" is available on a nationwide basis only. For each state, this report lists the state code, state name, and total number of plants, plant-points, and plant-point-SCCs. The states themselves are listed in ascending numerical order according to state code number. A grand total of plants, plant-points, and plant-point-SCCs is printed at the end.

RETRIEVALS AVAILABLE

The report may be selected and sorted according to the information described in the "General Selection and Sorting Capabilities Section."

SAMPLE REPORT

Figure 24 "Plant-Point-SCC Count Report" shows totals for the first four states and national grand totals.

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ST CO	STATE	TOTAL NUMBER PLANTS	TOTAL NUMBER PLANT-POINTS	TOTAL NUMBER PLANT-POINT-SCC
01	ALABAMA	361	1,736	2,769
02	ALASKA	178	267	410
03	ARIZONA	361	589	1,201
04	ARKANSAS	236	689	813
	GRAND TOTAL	30,127	83,202	108,238

Figure 24. Plant-Point-SCC count report

MISSING ITEM REPORT

GENERAL DESCRIPTION

The "Missing Item Report" is a point source inventory of missing data items. Seven geographical summarization types are available as listed below:

a. National
b. State
c. State/County
d. AQCR
e. State/AQCR
f. State/County/Plant
g. State/County/Plant/Point

This report presents a count of the missing items according to the summarization type requested. Any data can be selected to be summarized based on the point source selection capability. After the data are selected, they can be summarized using any of the above report types. For example, all boilers could be selected and summarized by state to determine the number of boilers and data available for boilers. In addition to totals for the number of plants, points and SCCs present, totals are printed to indicate the confidentiality status of processes and plants.

RETRIEVALS AVAILABLE

The retrieval options for the "Missing Item Report" are the same as those available for the "Point Source Report". Care must be taken to ensure the combination of summary type and retrieval options will produce a meaningful report.

SAMPLE REPORT

Figure 25 is a "Missing Item Report" for the State of Delaware.

POINT SOURCE INVENTORY - INCOMPLETE DATA ITEMS

DATA: MAY 14, 1980 FILE CREATED ON: 1980WEDNESDAY MAY 14,
STATE(S) : DELAWARE

MISSING DATA ITEMS

THE COUNTS BELOW APPLY TO CORRESPONDING DATA FIELDS
FOR EACH NEDS POINT SOURCE FORM SUBMITTED FOR THIS
GEOGRAPHICAL AREA. THERE ARE 1032 POINTS REPORTING
IN THIS AREA.

DATA ITEM	# MISSING
CARD #1	
YEAR OF RECORD	0
CITY	211
UTM ZONE	1
NAME AND ADDRESS	0
CONTACT-PERSONAL	1
OWNERSHIP	1
CARD #2	
YEAR OF RECORD	0
SIC	0
UTM-HORIZONTAL	3
UTM-VERTICAL	4
STACK DATA	
HEIGHT	67
DIAMETER	66
TEMPERATURE	85
FLOW RATE	16
PLUME HEIGHT	49
CARD #3	
YEAR OF RECORD	0
BOILER DESIGN CAP	102
CONTROL EQUIPMENT	
PRIMARY PART.	171
SECONDARY PART.	173
PRIMARY SOX	331
SECONDARY SOX	331
PRIMARY NOX	337
SECONDARY NOX	337
PRIMARY HC	265
SECONDARY HC	267
PRIMARY CO	332
SECONDARY CO	332
EST. CONTROL EFF.	
PART.	95
SOX	255
NOX	262
HC	189
CO	256

DATA ITEM	# MISSING
CARD #4	
YEAR OF RECORD	0
ANNUAL THROUGHPUT	
DEC-FEB	84
MAR-MAY	84
JUNE-AUG	84
SEPT-NOV	84
NORMAL OPERATING	
HOURS/DAY	30
DAYS/WEEK	29
WEEKS/YEAR	29
EMISSION ESTIMATE	
PART.	95
SOX	255
NOX	262
HC	190
CO	256
ESTIMATION METHOD	
PART.	95
SOX	255
NOX	262
HC	188
CO	256
% SPACE HEAT	579

DATA ITEM	# MISSING
CARD #5	
YEAR OF RECORD	0
ALLOWABLE EMISS.	
PART.	829
SOX	827
NOX	825
HC	820
CO	825
COMPL. STATUS	13
COMPL. SCHEDULE	
YEAR	16
MONTH	16
COMPL. STATUS UPD.	
YEAR	35
MONTH	35
DAY	35
ECAP	117
CARD #6	
YEAR OF RECORD	0
OPERATING RATE	80
MAX. DESIGN RATE	572
SULFUR CONTENT	0
ASH CONTENT	1
HEAT CONTENT	560
SOURCE	3

NUMBER OF PLANTS IN NEDS:	417
NUMBER OF POINTS WITHIN THE PLANTS ABOVE:	1032
NUMBER OF PROCESSES(SCC'S) WITHIN THE POINTS ABOVE:	1131

CONFIDENTIALITY STATUS:

NUMBER OF PROCESSES DESIGNATED CONFIDENTIAL:	0
NUMBER OF PROCESSES DESIGNATED NON CONFIDENTIAL:	1131
NUMBER OF PROCESSES WITH CONFIDENTIALITY UNKNOWN:	0
NUMBER OF PLANTS WITH CONFIDENTIAL PROCESSES:	0

Figure 25. Missing item report

HIGHEST PLANT NUMBER BY COUNTY REPORT

GENERAL DESCRIPTION

The "Highest Plant Number by County Report" gives the number of the last plant updated in each county and thus the last included in the NEDS file. The counties are listed in alphabetical order by state; the states themselves are listed in ascending order of state code. In each case, the state and county code numbers are provided in addition to their names. The output from this report is used to assist in assigning new plant numbers.

SAMPLE REPORT

Figure 26 presents that portion of the "Highest Plant Number by County Report" for the first seven counties in the State of Alabama.

FILE CREATED ON TUESDAY APRIL 15, 1975

NATIONAL EMISSIONS DATA SYSTEM

SOURCE INVENTORY

HIGHEST PLANT NUMBER BY COUNTY

STATE	COUNTY		PLANT	ID
ALABAMA	AUTAUGA	01	0240	0002
	BALDWIN	01	0260	9007
	BARBOUR	01	0280	0013
	BIBB	01	0360	0007
	BLOUNT	01	0400	0002
	BULLOCK	01	0520	9004
	BUTLER	01	0540	9001

Figure 26. Highest plant number by county report

NEDS TERMINAL SYSTEM

The NEDS Terminal System (NTS) is available to EPA personnel and other qualified individuals who are registered users of the EPA National Computer Center (NCC) at Research Triangle Park, North Carolina. NTS provides retrieval access to NEDS data files through demand terminals with the option of having report output printed at the user's own terminal or routed to the central computer site and mailed to him later. NTS is designed so that users who are not familiar with computers as well as users who are computer-oriented can access the system and submit their requests. The system operates in a conversational mode to request information from the user. Both interactive (programs that retrieve data immediately and display them on low-speed terminal outputs) and remote batch (programs that allow a run to be generated and submitted for later processing) retrieval modes are available.

The remote batch part of NTS allows users to submit runs for NEDS fuel and condensed point source listings, plant name reports, missing items reports, potential emissions reports, emissions by SCC reports and NEDS emission summary reports. Retrieval options and sort capabilities are the same as described in this booklet.

The NTS interactive capability, termed "NEDS Quick Look", allows additional selection and report capabilities not available with batch retrievals. The "NEDS Quick Look" routines allow selection of individual point or area source records according to any data field in the point or area source files. In addition, restrictions may be placed on data field values.so that only records with a data value greater than or less than a specified value are retrieved. For example, using Quick Look it would be possible to select all records in a specific area with boiler design capacities between 100 and 250 million BTU per hour. After records have been selected various report options are available. One option is to simply receive a formatted report that gives a count of the number of records selected. Another option is to create a one-line report for each selected record to print data fields specified by the user. Other options are to catalog a file of selected records for later access or to initate one of the standard NEDS batch retrievals using the file of selected records.

ADDITIONAL PUBLICATIONS

Other publications which describe and supplement this booklet for NEDS as well as other AEROS data bases include:

1. AEROS Manual Series Volume I: AEROS Overview, EPA-450/2-76-001. This manual as the name implies presents an overview of the system.
2. AEROS Manual Series Volume II: AEROS User's Manual, EPA-450/2-76-029. This manual describes data coding as well as the data flow procedures.
3. AEROS Manual Series Volume III: AEROS Summary and Retrieval Manual, EPA-450/2-76-009. This manual describes computerized reports as well as several examples of data analysis.
4. AEROS Manual Series Volume V: AEROS Manual of Codes, EPA-450/2-76-005. This manual contains all necessary AEROS codes.

These manuals are available from the same sources as the NEDS publications.

GLOSSARY

1. Air Quality Control Region (AQCR) - one of 247 geographical areas in which the 55 "States" are divided based on jurisdictional boundaries, urban industrial concentrations, and other factors, including atmospheric areas necessary to provide adequate implementation of air quality.
2. Activity level - In the NEDS area source file, data values which reflect estimated fuel consumption amounts, vehicle miles travelled, or other parameters, which when used with appropriate area source emission factors allow computation of emissions estimates for area sources.
3. Allowable emissions - The maximum pollutant emissions that a source is allowed to discharge into the atmosphere under the most stringent applicable local, state or Federal regulations.
4. Area Source - an aggregation by county of all sources not defined as point sources in a specific geographic area. Area sources include all mobile sources and any stationary sources too small or numerous to classify as point sources. The area source emissions are assumed to be spread over the entire area which has been defined as an area source. Approximately 3100 area sources are recorded in NEDS.
5. Computerized report - a printed data display created by a computer program from a data file based on specific retrieval and sort options. The specific format and amount of data vary with the program, retrieval options and sort options which are utilized.
6. Calculated Emissions - mass of pollutants estimated to be discharged into the atmosphere by a source, taking into account reductions effected by air pollution control devices. In NEDS, calculated emissions are differentiated from estimated emissions in that calculated emissions are computer calculated and estimated emissions are hand calculated.
7. Criteria pollutants - Air pollutants for which national ambient air quality standards have been established (particulates, sulfur oxides, nitrogen oxides, hydrocarbons, carbon monoxide, and photochemical oxidants). Emissions of photochemical oxidants are not included in NEDS because these compounds are not emitted by sources directly, but are formed in the atmosphere as the result of photochemical reactions.

8. Emission - any substance, other than uncombined water, which is discharged into the atmosphere.
9. Emission factor - an estimate of the rate at which a pollutant is released to the atmosphere as the result of some activity, divided by the rate of that activity.
10. Emission point - source which is coded on a single NEDS coding form. Generally, an emission point represents a single stack or group of stacks associated with a process or group of related processes that may be considered individually for defining the origin of air pollutant emissions. Emission points may be defined to report like sources of emissions that are not discharged through stacks, such as storage tanks, process vents, or open burning sources.
11. Key - unique set of characters which identify individual data records. For point source records, the key consists of the codes for State, county, plant, point, and source classification code. For area source records the key includes the codes for State, county, and AQCR.
12. Operating rate - amount of material charged to, consumed in, or produced by a source unit in a given time and which may be used to compute emissions using emission factors. In NEDS, operating rates are specifically defined by SCC units.
13. Plant - any establishment owned by a single corporation, partnership, or individual which produces sufficient air pollutant emissions to be classified as a point source. A large number of emission points may be included within a plant.
14. Plant number - the 4-character alphanumeric value which is part of the key for point sources and is uniquely assigned by county.
15. Point number - the 2-character alphanumeric value which is part of the key and is uniquely assigned by plant to each emission point.
16. Point source - any stationary source for which individual detailed records are kept. Point sources are usually defined as any facility which releases more than a specified amount of a pollutant. Current Federal regulations require that facilities emitting more than 100 tons/year of a given pollutant be included.
17. Publication - In NEDS, either of two printed books which are compiled from the emissions and fuel usage data in NEDS and which are published to reflect the emissions or fuel usage data on an annual basis for a specific year.

18. Retrieval option - options available for the selection of a subset of records from a data file based on a partial or complete key. The selection based on a specific partial or complete key produces a file of all records with keys that meet selection criteria.
19. SAROAD Codes - geographical identification codes utilized in NEDS for States, counties, and cities. Developed originally as a part of the Storage and Retrieval of Aerometric Data (SAROAD) system, the State code is a 2-digit code and the county and city codes are 4-digit codes.
20. Sort Option - order of reporting formatted data in a computerized report. Each computerized report creates a unique format which is repeated for each retrieved record. The sort can be on the individual parts of the key or by specific data items in each record.
21. Source Classification Code (SCC) - in NEDS and NEDS compatible systems, the 8-digit number that is used to identify and describe the individual processes producing air pollution within an emission point. A boiler burning two fuels is an example of an emission point with an individual SCC for each fuel.
22. Standard Industrial Classification (SIC) - Classifications developed for statistical reporting purposes by the Office of Management and Budget to define individual establishments according to the type of economic activity in which they are engaged.
23. State Implementation Plan (SIP) - Under Clean Air Act requirements, plans required to be submitted by state agencies for implementation, maintenance and enforcement of rules to achieve national ambient air quality standards. The NEDS area source file contains area source emission estimates submitted with each states original SIP.
24. Stationary source - any source of emissions with a permanently fixed location.
25. UTM Coordinates - map coordinates based on the Universal Transverse Mercator System developed by the U.S. Army. The UTM system provides for the projection of uniform square grid zones with convenient measuring units. For emissions inventory data, UTM coordinates of a source are normally reported to 0.1 kilometers.
26. UTM zone - a north-south zone six degrees wide with a central transverse mercator as defined by the UTM coordinate system.